Mouse anti-Human IgG4 Fc Secondary Antibody

**Catalog Number** A-10651

<table>
<thead>
<tr>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Size</strong></td>
<td>250 µL</td>
</tr>
<tr>
<td><strong>Host/Isotope</strong></td>
<td>Mouse / IgG1</td>
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<tr>
<td><strong>Class</strong></td>
<td>Monoclonal</td>
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<tr>
<td><strong>Type</strong></td>
<td>Secondary Antibody</td>
</tr>
<tr>
<td><strong>Clone</strong></td>
<td>HP6025</td>
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<tr>
<td><strong>Immunogen</strong></td>
<td>Human IgG4</td>
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<tr>
<td><strong>Target Class</strong></td>
<td>IgG4</td>
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<tr>
<td><strong>Antibody Form</strong></td>
<td>Whole Antibody</td>
</tr>
<tr>
<td><strong>Conjugate</strong></td>
<td>Unconjugated</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
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<tr>
<td><strong>Concentration</strong></td>
<td>1 mg/ml</td>
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<tr>
<td><strong>Purification</strong></td>
<td>purified</td>
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<tr>
<td><strong>Storage buffer</strong></td>
<td>PBS, pH 7.2</td>
</tr>
<tr>
<td><strong>Contains</strong></td>
<td>5mM sodium azide</td>
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<td><strong>Storage Conditions</strong></td>
<td>4° C</td>
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<tr>
<th>Species Reactivity</th>
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<tr>
<td><strong>Tested species reactivity</strong></td>
<td>Human</td>
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<tr>
<td><strong>Published species reactivity</strong></td>
<td>Not Applicable</td>
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<tr>
<th>Tested Applications</th>
<th>Dilution *</th>
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<tr>
<td><strong>Immunofluorescence (IF)</strong></td>
<td>1:500-1:20,000</td>
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<th>Published Applications</th>
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<tbody>
<tr>
<td><strong>ELISA (ELISA)</strong></td>
<td>See 13 publications below</td>
</tr>
<tr>
<td><strong>Miscellaneous PubMed (MISC)</strong></td>
<td>See 12 publications below</td>
</tr>
<tr>
<td><strong>Immunohistochemistry (IHC)</strong></td>
<td>See 4 publications below</td>
</tr>
<tr>
<td><strong>Immunohistochemistry (Paraffin) (IHC (P))</strong></td>
<td>See 9 publications below</td>
</tr>
</tbody>
</table>

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

**Background/Target Information**

Anti-Human secondary antibodies are affinity-purified antibodies with well-characterized specificity for human immunoglobulins and are useful in the detection, sorting or purification of its specified target. Secondary antibodies offer increased versatility enabling users to use many detection systems (e.g. HRP, AP, fluorescence). They can also provide greater sensitivity through signal amplification as multiple secondary antibodies can bind to a single primary antibody. Most commonly, secondary antibodies are generated by immunizing the host animal with a pooled population of immunoglobulins from the target species and can be further purified and modified (i.e. immunoaffinity chromatography, antibody fragmentation, label conjugation, etc.) to generate highly specific reagents.

<table>
<thead>
<tr>
<th>PubMed References For Mouse anti-Human IgG4 Fc Secondary Antibody</th>
</tr>
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<tbody>
<tr>
<td><strong>13 ELISA References</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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</thead>
<tbody>
<tr>
<td>Not Applicable / 1:250</td>
<td><strong>A-10651</strong> was used in ELISA to discuss vaccine candidates for Plasmodium falciparum</td>
</tr>
<tr>
<td>Not Applicable / Not Cited</td>
<td><strong>A-10651</strong> was used in ELISA to discuss the use of ELISAs for ocular C. trachomatis infections.</td>
</tr>
<tr>
<td>Not Applicable / 1:500</td>
<td><strong>A-10651</strong> was used in ELISA to study the Th2-regulated dsg3-specific autoantibody subtypes present in patients with pemphigus vulgaris</td>
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<tr>
<td>Not Applicable / 1:500</td>
<td><strong>A-10651</strong> was used in ELISA to measure the MSP5 antibody responses in Papuans with acute infection with or previous exposure to Plasmodium species</td>
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<tr>
<td>Not Applicable / 1:500</td>
<td><strong>A-10651</strong> was used in ELISA to assess using CD203c as a biomarker for rush immunotherapy</td>
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<tr>
<td>Not Applicable / 1:500</td>
<td><strong>A-10651</strong> was used in ELISA to show that removal of Dsg-reactive autoantibodies by immunoadsorption leads to clinical remission of pemphigus</td>
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<td></td>
<td>Dermatology (Basel, Switzerland) (Feb 2006; 212: 177) &quot;Prolonged clinical remission of patients with severe pemphigus upon rapid removal of desmoglein-reactive autoantibodies by immunoadsorption.&quot; Author(s): Eming R,Rech J,Barth S,Kalden JR,Slucher G,Harrer T,Hertl M PubMed Article URL:<a href="http://dx.doi.org/10.1159/000090659">http://dx.doi.org/10.1159/000090659</a></td>
</tr>
<tr>
<td>Not Applicable / 1:500</td>
<td><strong>A-10651</strong> was used in ELISA to determine the epitope and subclass specificity of autoantibodies in bullous pemphigoid.</td>
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<tr>
<td>Not Applicable / 1:1000</td>
<td><strong>A-10651</strong> was used in ELISA to study endothelial cell activation and anti-Gal antibodies in human blood.</td>
</tr>
<tr>
<td></td>
<td>Xenotransplantation (Sep 2002; 9: 350) &quot;Human serum-induced porcine endothelial cell E-selectin expression is associated with IgG3 and IgM anti-Gal antibodies.&quot; Author(s): Saethre M,Selvik UO,Haraldsen G,Fiane AE,Boretti E,Thorsby E,Platt JL,Mollnes TE PubMed Article URL:<a href="http://dx.doi.org/10null">http://dx.doi.org/10null</a></td>
</tr>
</tbody>
</table>
A-10651 was used in ELISA to correlate serum IgG subclass antibody levels and alveolar bone loss in treated and untreated periodontitis patients

Journal of clinical periodontology (Sep 2001; 28: 853)
"Porphyromonas gingivalis-specific IgG subclass antibody levels as immunological risk indicators of periodontal bone loss."
Author(s): Sakai Y, Shimauchi H, Ito H, Kitamura M, Okada H
PubMed Article URL: http://dx.doi.org/null

A-10651 was used in ELISA to investigate antibody-dependent cell-mediated cytotoxicity of gliadin-coated cells using sera from children with coeliac disease.

Scandinavian journal of immunology (Jan 2001; 53: 92)
"IgG subclass profile of serum antigliadin antibodies and antibody-dependent cell-mediated cytotoxicity in young children with coeliac disease."
Author(s): Saalaman R, Dahlgren U, Fällström SP, Hanson LA, Ahlstedt S, Wold AE
PubMed Article URL: http://dx.doi.org/null

A-10651 was used in ELISA to develop ELISAs to measure IgG subclass antibodies to human cytomegalovirus.

Biologicals : journal of the International Association of Biological Standardization (Jun 1996; 24: 117)
"IgG subclass antibodies to human cytomegalovirus (CMV) in normal human plasma samples and immune globulins and their neutralizing activities."
Author(s): Gupta CK, Leszcynski J, Gupta RK, Siber GR
PubMed Article URL: http://dx.doi.org/10.1006/biol.1996.0015

A-10651 was used in ELISA to test if IgG4 or other isotypes inhibit the detection of Wuchereria bancrofti-specific IgE.

The Journal of parasitology (Feb 1996; 82: 178)
"Immunopurification and measurement of IgE in serum samples from bancroftian filariasis patients."
Author(s): Martey SE, Lamnie PJ, Eberhard ML
PubMed Article URL: http://dx.doi.org/null

A-10651 was used in ELISA to determine the IgG subclasses complexed to the hepatitis B e antigen in human sera.

Clinical and experimental immunology (Apr 1991; 84: 116)
"IgG subclasses in circulating immune complexes with hepatitis B e antigen in chronic hepatitis B."
Author(s): Sällberg M, Norder H, Lindh G, Magnus L
PubMed Article URL: http://dx.doi.org/null

A-10651 was used in immunohistochemistry (paraffin) to examine how the recognition and management of autoimmune pancreatitis has changed.

The Annals of otology, rhinology, and laryngology (Jun 2014; 123: 420)
"Otolologic manifestations of immunoglobulin G4-related disease."
Author(s): Takagi D, Nakamaru Y, Fukuda S
PubMed Article URL: http://dx.doi.org/10.1177/003489414526844

A-10651 was used in immunohistochemistry to review the presentation and management of patients with extra-pancreatic IgG4-related systemic disease.

International journal of clinical and experimental pathology (Jul 2013; 6: 1317)
"Evolution in the diagnosis and treatment of autoimmune pancreatitis: experience from a single tertiary care center."
Author(s): Yurci A, Stevens T, Shahn SN, Law RE, Walsh MR, Yerian L, Lui X
PubMed Article URL: http://dx.doi.org/null

A-10651 was used in immunohistochemistry to investigate the etiology of idiopathic retroperitoneal fibrosis.

Internal medicine journal (Apr 2013; 43: 417)
"Extra-pancreatic manifestations of IgG4-related systemic disease: a single-centre experience of treatment with combined immunosuppression."
Author(s): Bosco JJ, Suan D, Varikatt W, Lin MW
PubMed Article URL: http://dx.doi.org/10.1111/j.1445-5994.2012.02964.x

A-10651 was used in immunohistochemistry to investigate the etiology of idiopathic retroperitoneal fibrosis.

Human pathology (Nov 2012; 43: 1875)
"Evidence for clonal fibroblast proliferation and autoimmune process in idiopathic retroperitoneal fibrosis."
Author(s): Clevenger JA, Wang M, MacLennan GT, Montironi R, Lopez-Beltran A, Cheng L
PubMed Article URL: http://dx.doi.org/10.1016/j.humpath.2012.01.012


Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Documentation, specifications and/or accompanying package inserts ("Documentation"). His claim of suitability for use in applications regulated by FDA is made. The warranty is limited to repair, replacement of or refund for the non-conforming Product(s) at Seller's sole option. There is no other warranties, express or implied, are granted including without limitation, implied warranties of merchantability, fitness for any particular purpose, or non infringement. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. Provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. Provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.
A-10651 was used in immunohistochemistry to report and characterize a case of Rosai-Dorfman disease with overlapping features of IgG4-related sclerosing disease.

Not Applicable / 1:200

Korean journal of pathology  (Oct 2012; 46: 489)
"Rosai-Dorfman Disease in the breast with increased IgG4 expressing plasma cells: a case report."
Author(s): Cha YJ,Yang WI,Park SH,Koo JS
PubMed Article URL:http://dx.doi.org/10.4132/KoreanJPathol.2012.46.5.489

A-10651 was used in immunohistochemistry to determine the prevalence of IgG4+ cells in granulomatosis with polyangiitis.

Not Applicable / Not Cited

International journal of rheumatology (May 2012; 2012: null)
"Increased IgG4-Positive Plasma Cells in Granulomatosis with Polyangiitis: A Diagnostic Pitfall of IgG4-Related Disease."
Author(s): Chang SY,Keogh K,Lewis JE,Ryu JH,Yi ES
PubMed Article URL:http://dx.doi.org/10.1155/2012/121702

A-10651 was used in immunohistochemistry (paraffin) to discuss how to diagnose IgG4-related sclerosing disease in the ocular region.

Not Applicable / 1:800

American journal of clinical pathology (May 2012; 137: 699)
"IgG4-related systemic sclerosing disease of the ocular adnexa: a potential mimic of ocular lymphoma."
Author(s): Karamchandani JR,Younes SF,Warmke RA,Natkunam Y
PubMed Article URL:http://dx.doi.org/10.1309/AJCPE1G8DRHXRP1H

A-10651 was used in immunohistochemistry (paraffin) to discuss diagnosis of IgG4-related diseases.

Not Applicable / 1:10000

Histopathology (Jan 2012; 60: 296)
"Ocular adnexal IgG4-related disease: comparative analysis with mucosa-associated lymphoid tissue lymphoma and other chronic inflammatory conditions."
Author(s): Go H,Kim JE,Kim YA,Chung HK,Khwarg SI,Kim CW,Jeon YK
PubMed Article URL:http://dx.doi.org/10.1111/j.1365-2559.2011.04089.x

A-10651 was used in immunohistochemistry - paraffin section to examine IgG4 expression in dura-based marginal zone lymphomas.

Not Applicable / Not Cited

Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc (Mar 2011; 24: 355)
"Marginal zone lymphomas involving meningeal dura: possible link to IgG4-related diseases."
Author(s): Venkataraman G,Rizzo KA,Chavez JJ,Streubel B,Raffeld M,Jaffe ES,Pittaluga S
PubMed Article URL:http://dx.doi.org/10.1038/modpathol.2010.206

A-10651 was used in immunohistochemistry - paraffin section to test for the presence of IgG4-positive plasmacytes in 14 various inflammatory lesions.

Not Applicable / 1:2000

Endocrine pathology (Dec 2010; 21: 236)
"Immunohistochemical study for IgG4-positive plasmacytes in pituitary inflammatory lesions."
Author(s): Nishiohka H,Shibuya M,Haraoka J
PubMed Article URL:http://dx.doi.org/10.1007/s12022-010-9128-5

A-10651 was used in immunohistochemistry - paraffin section to report on four cases of idiopathic cervical fibrosis.

Not Applicable / 1:500

The American journal of surgical pathology (Nov 2010; 34: 1678)
"Idiopathic cervical fibrosis--a new member of IgG4-related sclerosing diseases: report of 4 cases, 1 complicated by composite lymphoma."
Author(s): Cheuk W,Tam FK,Chan AN,Luk IS,Yuen AP,Chan WK,Hung TC,Chan JK
PubMed Article URL:http://dx.doi.org/10.1097/PAS.0b013e3181f12c85

A-10651 was used in western blot to study Onchocerca volvulus volvulus polypeptides.

Not Applicable / 1:830

Tropical medicine and international health : TM and IH (Jul 1997; 2: 635)
"Antigenicity and specificity of very low molecular weight Onchocerca volvulus polypeptides in the range 2.2-12.5 kD."
Author(s): Hoffmann WH,Blanke CH,Maier JM,Lüder CG,Schulz-Key H,Soboslay PT
PubMed Article URL:http://dx.doi.org/null

4 Immunohistochemistry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
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<tr>
<td>Not Applicable / 1:200</td>
<td>A-10651 was used in immunohistochemistry to report and characterize a case of Rosai-Dorfman disease with overlapping features of IgG4-related sclerosing disease.</td>
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<tr>
<td>Not Applicable / Not Cited</td>
<td>Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc (Mar 2011; 24: 355) &quot;Marginal zone lymphomas involving meningeal dura: possible link to IgG4-related diseases.&quot; Author(s): Venkataraman G,Rizzo KA,Chavez JJ,Streubel B,Raffeld M,Jaffe ES,Pittaluga S PubMed Article URL:<a href="http://dx.doi.org/10.1038/modpathol.2010.206">http://dx.doi.org/10.1038/modpathol.2010.206</a></td>
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<td>Not Applicable / 1:500</td>
<td>The American journal of surgical pathology (Nov 2010; 34: 1678) &quot;Idiopathic cervical fibrosis--a new member of IgG4-related sclerosing diseases: report of 4 cases, 1 complicated by composite lymphoma.&quot; Author(s): Cheuk W,Tam FK,Chan AN,Luk IS,Yuen AP,Chan WK,Hung TC,Chan JK PubMed Article URL:<a href="http://dx.doi.org/10.1097/PAS.0b013e3181f12c85">http://dx.doi.org/10.1097/PAS.0b013e3181f12c85</a></td>
</tr>
<tr>
<td>Not Applicable / 1:830</td>
<td>Tropical medicine and international health : TM and IH (Jul 1997; 2: 635) &quot;Antigenicity and specificity of very low molecular weight Onchocerca volvulus polypeptides in the range 2.2-12.5 kD.&quot; Author(s): Hoffmann WH,Blanke CH,Maier JM,Lüder CG,Schulz-Key H,Soboslay PT PubMed Article URL:<a href="http://dx.doi.org/null">http://dx.doi.org/null</a></td>
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A-10651 was used in immunohistochemistry to discuss variants of hypophysitis.

"IgG4-related hypophysitis: a new addition to the hypophysitis spectrum."
Author(s): Leporati P, Landek-Salgado MA, Lupi, L, Chiovato L, Caturegli P
PubMed Article URL:http://dx.doi.org/10.1210/jc.2010-2970

A-10651 was used in immunohistochemistry to report a case of multiple IgG4-related sclerosing lesions in the maxillary sinus, parotid gland, and nasal septum

Pathology international (Sep 2009; 59: 670)
"Multiple IgG4-related sclerosing lesions in the maxillary sinus, parotid gland and nasal septum."
Author(s): Ishida M, Hotta M, Kusihara R, Shibayama M, Shimizu T, Okabe H
PubMed Article URL:http://dx.doi.org/10.1111/j.1440-1827.2009.02425.x

A-10651 was used in immunohistochemistry to characterize a case of IgG4-related inflammatory aortic aneurysm of the aortic arch

Pathology international (Apr 2009; 59: 269)
"IgG4-related inflammatory aneurysm of the aortic arch."
Author(s): Ishida M, Hotta M, Kusihara R, Asai T, Okabe H
PubMed Article URL:http://dx.doi.org/10.1111/j.1440-1827.2009.02363.x

A-10651 was used in immunohistochemistry to report a case of IgG4-related inflammatory abdominal aortic aneurysm accompanying metachronous autoimmune pancreatitis

Pathology international (Jul 2008; 58: 421)
"IgG4-related inflammatory abdominal aortic aneurysm associated with autoimmune pancreatitis."
Author(s): Ito H, Kaizaki Y, Noda Y, Fuji S, Yamamoto S
PubMed Article URL:http://dx.doi.org/10.1111/j.1440-1827.2008.02247.x

9 Immunohistochemistry (Paraffin) References

Species / Dilution

Summary

A-10651 was used in immunohistochemistry - paraffin section to characterize the first case of IgG4-related disease arising in the renal pelvis

Medical molecular morphology (Dec 2009; 42: 236)
"Chronic sclerosing pyelitis with an increased number of IgG4-positive plasma cells."
Author(s): Kuroda N, Nakamura S, Miyazaki K, Inoue K, Ohara M, Mizuno K, Sato Y, Yoshino T
PubMed Article URL:http://dx.doi.org/10.1007/s00795-008-0425-8

A-10651 was used in immunohistochemistry - paraffin section to describe a case of lymphoplasmacytic sclerosing pancreatitis

Pathology international (Oct 2009; 59: 744)
"Small invasive ductal adenocarcinoma of the pancreas associated with lymphoplasmacytic sclerosing pancreatitis."
Author(s): Motosugi U, Ichikawa T, Yamaguchi H, Nakazawa T, Katoh R, Itakura J, Fuji H, Sato T, Araki T, Shimizu M
PubMed Article URL:http://dx.doi.org/10.1111/j.1440-1827.2009.02437.x

A-10651 was used in immunohistochemistry - paraffin section to characterize patients with IgG4-related sclerosing sialadenitis involving the submandibular glands

Oral surgery, oral medicine, oral pathology, oral radiology, and endodontics (Oct 2009; 108: 544)
"Immunoglobulin G4-related sclerosing sialadenitis: a report of two cases and review of the literature."
Author(s): Abe T, Sato T, Tomaru Y, Sakata Y, Kokubu S, Hori N, Kobayashi A, Yoda T
PubMed Article URL:http://dx.doi.org/10.1007/s00795-008-0425-8

A-10651 was used in immunohistochemistry - paraffin section to compare the histopathologic features of inflammatory pseudotumor disease with cases of IgG4-related sclerosing disease

The American journal of surgical pathology (Sep 2009; 33: 1330)
"Inflammatory myofibroblastic tumor versus IgG4-related sclerosing disease and inflammatory pseudotumor: a comparative clinicopathologic study."
Author(s): Yamamoto H, Yamaguchi H, Aishima S, Oda Y, Kohashi K, Oshiro Y, Tsuneyoshi M
PubMed Article URL:http://dx.doi.org/null


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A-10651 was used in immunohistochemistry - paraffin section to report the first case of a patient with Mikulicz’s disease showing acquired reactive perforating collagenosis and features of IgG4-related sclerosing disease

Pathology international (May 2009; 59: 326)  
“Acquired reactive perforating collagenosis with the histological features of IgG4-related sclerosing disease in a patient with Mikulicz’s disease.”  
Author(s): Shioimi T, Yoshida Y, Horie Y, Yamamoto O  
PubMed Article URL: http://dx.doi.org/10.1111/j.1440-1827.2009.02374.x

A-10651 was used in immunohistochemistry - paraffin section to discuss characteristics of fibroinflammatory biliary stricture

“Fibroinflammatory biliary stricture: a rare bile duct lesion masquerading as cholangiocarcinoma.”  
Author(s): Gamblin TC, Krasinskas AM, Slivka AS, Tublin ME, Demetris J, Shue E, Caro S, Marsh JW, James Moser A  
PubMed Article URL: http://dx.doi.org/10.1007/s11605-008-0750-1

A-10651 was used in immunohistochemistry - paraffin section to identify biomarkers to evaluate chronic pancreatitis for malignancy

Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc (Mar 2009; 22: 351)  
“The role of Movat pentachrome stain and immunoglobulin G4 immunostaining in the diagnosis of autoimmune pancreatitis.”  
Author(s): Chu KE, Papouchado BG, Lane Z, Bronner MP  
PubMed Article URL: http://dx.doi.org/10.1038/modpathol.2008.196

A-10651 was used in immunohistochemistry - paraffin section to show the pathological mechanism for prostatitis is similar to the mechanism implicated in autoimmune pancreatitis

Internal medicine (Tokyo, Japan) (Dec 2007; 46: 1983)  
“IgG4-related autoimmune prostatitis: two cases with or without autoimmune pancreatitis.”  
Author(s): Nishimori I, Kohsaki T, Onishi S, Shuin T, Kohsaki S, Ogawa Y, Matsumoto M, Hiroi M, Hamano H, Kawa S  
PubMed Article URL: http://dx.doi.org/null

A-10651 was used in immunohistochemistry - paraffin section to assess cases of hepatic inflammatory pseudotumor with respect to IgG4-related disease

Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc (Aug 2007; 20: 884)  
“Pathological classification of hepatic inflammatory pseudotumor with respect to IgG4-related disease.”  
Author(s): Zen Y, Fuji T, Sato Y, Masuda S, Nakamura Y  
PubMed Article URL: http://dx.doi.org/10.1038/modpathol.3800836