p57 Kip2 Monoclonal Antibody (57P06 (KP10))

Catalog Number: MA5-11309

Details

<table>
<thead>
<tr>
<th>Details</th>
<th>Value</th>
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<tbody>
<tr>
<td>Size</td>
<td>500 µL</td>
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<tr>
<td>Host/Isotope</td>
<td>Mouse / IgG2b, kappa</td>
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<tr>
<td>Class</td>
<td>Monoclonal</td>
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<tr>
<td>Type</td>
<td>Antibody</td>
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<tr>
<td>Clone</td>
<td>57P06 (KP10)</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant human p57Kip2 protein</td>
</tr>
<tr>
<td>Conjugate</td>
<td>Unconjugated</td>
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<tr>
<td>Form</td>
<td>Liquid</td>
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<tr>
<td>Concentration</td>
<td>0.2 mg/mL</td>
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<tr>
<td>Purification</td>
<td>Protein A</td>
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<tr>
<td>Storage buffer</td>
<td>PBS, pH 7.4, with 0.2% BSA</td>
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<tr>
<td>Contains</td>
<td>0.09% sodium azide</td>
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<td>Storage Conditions</td>
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Species Reactivity

<table>
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<tr>
<th>Species Reactivity</th>
<th>Value</th>
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<tbody>
<tr>
<td>Species reactivity</td>
<td>Human, Mouse</td>
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<tr>
<td>Published species</td>
<td>Human, Mouse</td>
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Tested Applications

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<thead>
<tr>
<th>Tested Applications</th>
<th>Dilution *</th>
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<tbody>
<tr>
<td>Immunohistochemistry (Paraffin) (IHC (P))</td>
<td>2-4 µg/mL</td>
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<tr>
<td>Immunoprecipitation (IP)</td>
<td>2 µg/mL</td>
</tr>
<tr>
<td>Western Blot (WB)</td>
<td>1:50-1:500</td>
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Published Applications

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<tr>
<th>Published Applications</th>
<th>Value</th>
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<tbody>
<tr>
<td>Immunohistochemistry (IHC)</td>
<td>See 22 publications below</td>
</tr>
<tr>
<td>Western Blot (WB)</td>
<td>See 1 publications below</td>
</tr>
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</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.

Product specific information

MA5-11309 targets p57Kip2 in WB, IHC (P) and IP applications and shows reactivity with Human and mouse samples. The MA5-11309 immunogen is recombinant human p57Kip2 protein.

Background/Target Information

This gene is part of a gene cluster on chromosome Xp11.23. The encoded protein contains a zinc finger motif often found in transcriptional regulators, however, its exact function is not known. Alternative splicing results in multiple transcript variants encoding the same protein.

p57 Kip2 Antibody (MA5-11309) in IHC
Formalin-fixed, paraffin-embedded human colon carcinoma stained with p57 antibody using peroxidase-conjugate and AEC chromogen. Note nuclear staining of tumor cells.

Western blot analysis of p57Kip2 was performed by loading 25 µg of Jurkat (lane 1), SH-SY5Y (lane 2) and Neuro-2a (lane 3) cell lysates onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4°C overnight. The membrane was probed with a p57Kip2 monoclonal antibody (Product # MA5-11309) at a dilution of 1:50 (Jurkat) and 1:100 (SH-SY5Y and Neuro-2a) overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at ~57 kDa.

### PubMed References For p57 Kip2 Monoclonal Antibody (57P06 (KP10))

#### 22 Immunohistochemistry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA5-11309 was used in immunohistochemistry to examine the diagnostic significance of p57KIP2 for complete hydatidiform mole.</td>
</tr>
<tr>
<td><strong>Human / 1:600</strong></td>
<td>Contraception (Feb 2010; 81: 150) &quot;Early molar pregnancy: experience in a large abortion service.&quot; Author(s): Paul M, Goodman S, Felix J, Lewis R, Hawkins M, Drey E PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.contraception.2009.08.007">http://dx.doi.org/10.1016/j.contraception.2009.08.007</a></td>
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<td><strong>Human / 1:200</strong></td>
<td>MA5-11309 was used in immunohistochemistry to investigate the prognostic usefulness of p57kip2 for hydatidiform moles.</td>
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<tr>
<td><strong>Human / Not Cited</strong></td>
<td>MA5-11309 was used in immunohistochemistry to study the molecular and immunohistochemical characteristics of the focal form of congenital hyperinsulinism.</td>
</tr>
<tr>
<td><strong>Human / 1:500</strong></td>
<td>The American journal of surgical pathology (Mar 2006; 30: 362) &quot;Diagnostic and pathogenetic significance of increased stromal apoptosis and incomplete vasculogenesis in complete hydatidiform moles in very early pregnancy periods.&quot; Author(s): Kim MJ, Kim KR, Ro JY, Lage JM, Lee HI PubMed Article URL:<a href="http://dx.doi.org/10.1097/01.pas.0000194299.27463.21">http://dx.doi.org/10.1097/01.pas.0000194299.27463.21</a></td>
</tr>
<tr>
<td><strong>Human / 1:500</strong></td>
<td>The American journal of surgical pathology (Feb 2009; 33: 176) &quot;The villous stromal constituents of complete hydatidiform mole differ histologically in very early pregnancy from the normally developing placenta.&quot; Author(s): Kim KR, Park BH, Hong YO, Kwon HC, Robboy SJ PubMed Article URL:<a href="http://dx.doi.org/10.1097/PAS.0b013e31817fada1">http://dx.doi.org/10.1097/PAS.0b013e31817fada1</a></td>
</tr>
<tr>
<td><strong>Human / 1:400</strong></td>
<td>Genes, chromosomes &amp; cancer (Jul 2010; 49: 577) &quot;MI221 and MI222 alterations in sporadic ovarian carcinoma: Relationship to CDKN1B, CDKNIC and overall survival.&quot; Author(s): Wurz K, Garcia RL, Goff BA, Mitchell PS, Lee JH, Tewari M, Swisher EM PubMed Article URL:<a href="http://dx.doi.org/10.1002/gcc.20768">http://dx.doi.org/10.1002/gcc.20768</a></td>
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Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA
MA5-11309 was used in immunohistochemistry to study the value of different tests for diagnosing molar and nonmolar products of conception.

American journal of clinical pathology (Feb 2010; 133: 196)
"Comparison of fluorescence in situ hybridization, p57 immunostaining, flow cytometry, and digital image analysis for diagnosing molar and nonmolar products of conception."
Author(s): Kipp BR, Kettering RP, Oberg TN, Cousin MA, Plagge AM, Wiktor AE, Ihrke JM, Meyers CH, Morice WG, Halling KC, Clayton AC
PubMed Article URL:http://dx.doi.org/10.1097/01.path.0000356933.42446.3d

MA5-11309 was used in immunohistochemistry to examine the diagnostic application of P57KIP2 immunostaining in molar pregnancies.

Human / Not Cited
Human pathology (Jan 2008; 39: 63)
"P57KIP2 immunostaining and molecular cytogenetics: combined approach aids in diagnosis of morphologically challenging cases with molar phenotype and in detecting androgenetic cell lines in mosaic/chimeric conceptions."
Author(s): Hofftner L, Dunn J, Esposito N, MacPherson T, Surti U
PubMed Article URL:http://dx.doi.org/10.1016/j.humpath.2007.05.010

MA5-11309 was used in immunohistochemistry to study DNA content and immunohistochemistry in the evaluation of unfavourable outcome risk in Wilms' tumours.

Human / Not Cited
Anticancer research (Jun 2008; 28: 751)
"Role of DNA content analysis and immunohistochemistry in the evaluation of the risk of unfavourable outcome in Wilms' tumours."
Author(s): Osterheld MC, Caron L, Meagher-Villemure K

MA5-11309 was used in immunohistochemistry to study the value of microsatellite genotyping for diagnostic testing of molar pregnancy.

Human / 1:700
Archives of pathology & laboratory medicine (Jan 2013; 137: 55)
"Diagnostic utility of microsatellite genotyping for molar pregnancy testing."
Author(s): Furtado LV, Paxton CN, Jama MA, Tripp SR, Wilson AR, Lyon E, Jarboe EA, Thaker HM, Geiersbach KB
PubMed Article URL:http://dx.doi.org/10.5858/arpa.2012-0047-OA

MA5-11309 was used in immunohistochemistry to study whether immunohistochemical staining for p57KIP2 in gestational trophoblastic tumours can identify the type of causative pregnancy.

Human / 1:6000
Histopathology (Aug 2004; 45: 135)
p57KIP2 immunohistochemical staining of gestational trophoblastic tumours does not identify the type of the causative pregnancy.
Author(s): Sebire NJ, Rees HC, Peston D, Seckl MJ, Newlands ES, Fisher RA
PubMed Article URL:http://dx.doi.org/10.1111/j.1365-2559.2004.01904.x

MA5-11309 was used in immunohistochemistry to study the use of immunohistochemistry and ploidy analysis to assist histopathological diagnosis of molar diseases.

Human / Not Cited
Clinical medicine. Pathology (Nov 2011; 1: 61)
"Combination of immunohistochemistry and ploidy analysis to assist histopathological diagnosis of molar diseases."
Author(s): Osterheld MC, Caron L, Chaubert P, Meagher-Villemure K
PubMed Article URL:http://dx.doi.org/10.4137/cpath.s601

MA5-11309 was used in immunohistochemistry to study the development of glomerular sclerosis in kidneys from infants with Finnish type congenital nephrotic syndrome.

Human / Not Cited
Kidney international (Oct 2006; 70: 1423)
"Glomerular sclerosis in kidneys with congenital nephrotic syndrome (NPHS1)."
Author(s): Kuusniemi AM, Merenmies J, Lahdenkari AT, Holmborg C, Salmela K, Karikoski R, Rapola J, Jalanko H
PubMed Article URL:http://dx.doi.org/10.1038/sj.ki.5001779

MA5-11309 was used in immunohistochemistry to investigate the changes of gene expression in intraductal papillary mucinous neoplasm.

Human / Not Cited
Clinical cancer research : an official journal of the American Association for Cancer Research (Jul 2005; 11: 4681)
"Epigenetic down-regulation of CDKN1C/p57KIP2 in pancreatic ductal neoplasms identified by gene expression profiling."
Author(s): Sato N, Matsubayashi H, Abe T, Fukushima N, Goggins M
PubMed Article URL:http://dx.doi.org/10.1158/1078-0432.CCR-04-2471


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Human / 1:400

MA5-11309 was used in immunohistochemistry to investigate the influence of Bcl-2 reduction on the progression and prognosis of human IgA nephropathy.

Human / 1:4000

MA5-11309 was used in immunohistochemistry to investigate the genetic incident of trisomy 13 in a patient with a complete mole.

Human / 1:300

MA5-11309 was used in immunohistochemistry to analyze high-dimensional RNA and protein data to characterize molecular features of complete hydatidiform moles (CHMs) and corresponding pathologic pathways.

Human / 1:200

MA5-11309 was used in immunohistochemistry to evaluate the diagnostic significance of p57KIP2 immunohistochemistry in molar pregnancies.

Human / 1:200

MA5-11309 was used in immunohistochemistry to study the diagnostic and prognostic value of cell cycle regulators in differentiated thyroid cancer.

Human / 1:50

MA5-11309 was used in immunohistochemistry to study the role of E-protein transcription factors and Id2 in cell cycle regulation in neural cells.

Mouse / 1:67

MA5-11309 was used in western blot to study the role of the CDK inhibitor p57Kip2 in regulating cell cycle exit.

Mouse / Not Cited

MA5-11309 was used in western blot to study the role of p57Kip2 in regulating cell cycle exit.

Mouse / Not Cited

"The cyclin-dependent kinase inhibitor p57Kip2 regulates cell cycle exit, differentiation, and migration of embryonic cerebral cortical precursors."

Author(s): Tury A, Mairet-Coello G, DiCicco-Bloom E
PubMed Article URL: http://dx.doi.org/10.1093/cercor/bhq254