Donkey anti-Mouse IgG (H+L) ReadyProbes™
Secondary Antibody, Alexa Fluor 488
Catalog Number R37114

Size 2 x 2.5 mL
Host/Isotope Donkey / IgG
Class Polyclonal
Type Secondary Antibody
Immunogen Gamma Immunoglobulin
Target Class IgG
Antibody Form Whole Antibody
Conjugate Alexa Fluor® 488
Form Liquid
Purification Affinity chromatography
Storage buffer PBS with 0.1% BSA
Contains <0.1% sodium azide
Storage Conditions 4°C, store in dark

Species Reactivity
Species reactivity Mouse

Tested Applications
Flow Cytometry (Flow) Assay-Dependent
Immunocytochemistry (ICC) Assay-Dependent
Immunofluorescence (IF) Assay-Dependent

Published Applications
Immunohistochemistry (Frozen) (IHC (F)) See 1 publications below
Immunocytochemistry (ICC) See 2 publications below
Western Blot (WB) See 3 publications below
Immunohistochemistry (IHC) See 3 publications below

Published Applications

Product specific information
No pipetting or dilutions required. Just tip and drip two drops per mL buffer to stain your cells. This antibody shows minimum cross-reactivity to bovine, chicken, goat, guinea pig, hamster, horse, human, rabbit, rat, and sheep serum proteins. Like other ReadyProbes reagents, Alexa Fluor 488 Donkey anti-Mouse IgG Antibody comes in a convenient dropper bottle.

Background/Target Information
Anti-Mouse secondary antibodies are affinity-purified antibodies with well-characterized specificity for mouse 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.


Mouse IgG (H+L) Secondary Antibody (R37114) in IF

Immunofluorescence analysis of Donkey anti-Mouse IgG Secondary Antibody, Alexa Fluor 488 was performed using MCF-7 cells stained with Cytokeratin 19 (RCK108) Mouse Monoclonal Primary Antibody (Product # MA5-12613). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, blocked with 1% BSA for 1 hour and labeled with Mouse primary antibody (1:250 dilution) for 3 hours at room temperature. Donkey anti-Mouse IgG Secondary Antibody, Alexa Fluor 488 (Product # R37114) was used at 1:5000 dilution in phosphate buffered saline containing 0.2 % BSA for 45 minutes at room temperature, for detection of Cytokeratin 19 in the cytoplasm (Panel a: green). Nuclei (Panel b: blue) were stained with DAPI in SlowFade® Gold Antifade Mountant (Product # S36938). F-actin was stained with Rhodamine Phalloidin (Product # R415, 1:300) (Panel c: red). Panel d represents the composite image. No nonspecific staining was observed with the secondary antibody alone (panel f), or with an isotype control (panel e). The images were captured at 60X magnification.
### 1 Immunohistochemistry (Frozen) References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable / 1:750</td>
<td>R37114 was used in immunohistochemistry - frozen section to test if a Western-like high-fat diet predisposes rats to post-traumatic stress responsivity</td>
</tr>
</tbody>
</table>

**Not Applicable / 1:750**

"Western High-Fat Diet Consumption during Adolescence Increases Susceptibility to Traumatic Stress while Selectively Disrupting Hippocampal and Ventricular Volumes."

**Author(s):** Kalyan Marsh P, Vega-Torres JD, Miles C, Haddad E, Rainsbury S, Baghchechi M, Obenaus A, Figueroa JD

**PubMed Article URL:** http://dx.doi.org/10.1523/ENEURO.0125-16.2016

### 2 Immunocytochemistry References

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Not Applicable / Not Cited</td>
<td>R37114 was used in immunocytochemistry to investigate a novel mucopolysaccharidoses-like disease caused by a specific mutation in the VPS33A gene</td>
</tr>
</tbody>
</table>

**Not Applicable / Not Cited**

"Mutation in VPS33A affects metabolism of glycosaminoglycans: a new type of mucopolysaccharidosis with severe systemic symptoms."


**PubMed Article URL:** http://dx.doi.org/10.1093/rmg/ddw377

### 3 Western Blot References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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</thead>
<tbody>
<tr>
<td>Not Applicable / 1:500</td>
<td>R37114 was used in western blot to investigate the link between chronic stress and NG2 positive cell maturation and myelination</td>
</tr>
</tbody>
</table>

**Not Applicable / 1:500**

"Chronic stress regulates NG2 cell maturation and myelination in the prefrontal cortex through induction of death receptor 6."

**Author(s):** Yang Y, Zhang Y, Luo F, Li B

**PubMed Article URL:** http://dx.doi.org/10.1016/j.expneurol.2016.01.003

### 3 Immunohistochemistry References

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</thead>
<tbody>
<tr>
<td>Not Applicable / 1:200</td>
<td>R37114 was used in immunohistochemistry to discover a role for neuromuscular NMDA receptors in synaptic pruning during development</td>
</tr>
</tbody>
</table>

**Not Applicable / 1:200**

"Neuromuscular NMDA Receptors Modulate Developmental Synapse Elimination."

**Author(s):** Personius KE, Slusher BS, Udin SB

**PubMed Article URL:** http://dx.doi.org/10.1523/JNEUROSCI.1181-16.2016

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**Thermo Fisher Scientific**

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R37114 was used in immunohistochemistry to identify a critical role for SIG-7 in normal transcription elongation and co-transcriptional splicing

Author(s): Ahn JH, Rechsteiner A, Strome S, Kelly WG
PubMed Article URL: http://dx.doi.org/10.1371/journal.pgen.1006227

R37114 was used in immunohistochemistry to correlate Inc-beta-Catm, EZH2, and Wnt-beta-catenin expression with hepatocellular carcinoma severity and prognosis

Not Applicable / Not Cited

Nature structural and molecular biology (Jul 2016; 23: 631)
“Inc–Catm elicits EZH2-dependent -catenin stabilization and sustains liver CSC self-renewal.”
PubMed Article URL: http://dx.doi.org/10.1038/nsmb.3235