Product Datasheet

GAPDH Antibody (1D4)
NB300-221

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Reviews: 16  Publications: 246

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Updated 5/8/2018 v.20.1

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NB300-221
GAPDH Antibody (1D4)

Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>1D4</td>
</tr>
<tr>
<td>Preservative</td>
<td>5mM Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgM</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>50% PBS, 50% Glycerol</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>37 kDa</td>
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</tbody>
</table>

Product Description

Description
This GAPDH antibody (1D4) is primarily used as a loading control in western blots due to the near global expression of GAPDH which can be attributed to its vital role in the glycolytic metabolic process.

Host
Mouse

Gene ID
2597

Gene Symbol
GAPDH

Species
Human, Mouse, Rat, Porcine, Avian, Bovine, Chicken, Equine, Hamster, Opossum, Primate, Sheep, Zebrafish

Reactivity Notes
Human, mouse, rat, bovine, porcine, avian, sheep, opossum and primate. Likely to react with other mammals as well. Hamster and zebrafish reactivity reported by a customer review. chicken reactivity reported in scientific literature (PMID: 24725420)

Marker
Cytosolic Marker

Immunogen
Purified porcine GAPDH [UniProt# P00355]

Product Application Details

Applications
Western Blot, Simple Western, Chromatin Immunoprecipitation, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation

Recommended Dilutions
Western Blot 1:1000, Simple Western 1:25, Chromatin Immunoprecipitation 1:10 -1:500, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:100, Immunoprecipitation
This GAPDH Antibody (1D4) is useful for Western blot and Immunocytochemistry/Immunofluorescence. Immunohistochemistry was reported in scientific literature. In WB a prominent band can be seen at approximately 38 kDa. This antibody makes an excellent loading control for Western blot experiments. Use in immunoprecipitation reported in scientific literature (PMID 24032460). Use in chromatin immunoprecipitation reported in scientific literature (PMID 25802280).

In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: GAPDH Antibody (1D4) [NB300-221] - analysis of GAPDH in human nucleus pulposus cell culture (40ug/lane) using anti-GAPDH antibody. LI-COR Odyssey imaging system was used for detection. Image from verified customer review.

Western Blot: GAPDH Antibody (1D4) [NB300-221] - Analysis of cell line lysates probed with mouse mAb to GAPDH, NB300-221, dilution 1:2,000: [1] protein standard, [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS1, [6] NIH-3T3, and [7] C6 cells. The GAPDH antibody reveals a single band at ~37 kDa in all cell lines. GAPDH is a house keeping protein, the level of which is relatively unaffected by most experimental manipulations, and, as a result, this antibody has been widely used as a western blotting loading control.

Immunocytochemistry/Immunofluorescence: GAPDH Antibody (1D4) [NB300-221] - SH-SY5Y cells stained with GAPDH antibody NB300-221 (green) and Neurofilament Heavy antibody NB300-217 (red), counterstained with a fluorescent DNA probe (blue).
Western Blot: GAPDH Antibody (1D4) [NB300-221] - analysis of GAPDH in chicken pectoralis major using anti-GAPDH antibody. The primary antibody was used at a dilution of 1:4000, incubated for 1 hour at room temperature. Image from verified customer review.

Immunocytochemistry/Immunofluorescence: GAPDH Antibody (1D4) [NB300-221] - SH-SY5Y cells stained with GAPDH antibody NB300-221 (green). Nuclear DNA is stained with Hoechst dye (blue).
Publications


Bove A. Single cell approaches to study the interaction between normal and transformed cells in epithelial monolayers. Thesis. 2018 (WB, Canine)


Details:
Novus GAPDH antibody clone 1D4 was used as a loading control for western blot to look at metabolic enzyme levels in pregnant vs nonpregnant mice


Langhorst H, Juttner R, Groneberg D et al. The IgCAM CLMP is required for intestinal and ureteral smooth muscle contraction by regulating Connexin43 and 45 expression in mice Dis Model Mech 2018 Jan 19 [PMID: 29361518] (Mouse)


More publications at http://www.novusbio.com/NB300-221
**Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

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