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: 17  Publications: 282

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## Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Monoclonal</td>
</tr>
<tr>
<td><strong>Clone</strong></td>
<td>1D4</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>5mM Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgM</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>50% PBS, 50% Glycerol</td>
</tr>
<tr>
<td><strong>Target Molecular Weight</strong></td>
<td>36 kDa</td>
</tr>
</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, Canine, Chinese Hamster, Equine, Feline, Hamster, Opossum, Primate, Rabbit, Sheep, Zebrafish

**Reactivity Notes**
Human, mouse, rat, bovine, porcine, avian, sheep, opossum and primate. Likely to react with other mammals as well. Hamster, zebrafish and feline reactivity reported by customer reviews. Chicken, rabbit, and Chinese hamster reactivity reported in scientific literature (PMID: 24725420, 17545481, and 24928958 respectively).

**Marker**
Cytosolic Marker

**Immunogen**
This GAPDH antibody was developed against full length purified porcine GAPDH [UniProt# P00355]

## Product Application Details

**Applications**
Western Blot, Simple Western, Chromatin Immunoprecipitation, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Knockdown Validated, Single Cell Western

**Recommended Dilutions**
Western Blot 1:1000, Simple Western 1:25, Chromatin Immunoprecipitation 1:10 -1:500, Immunohistochemistry 1:100, Immunocytochemistry/Immunofluorescence 1:100, Immunoprecipitation, Immunohistochemistry-Frozen, Single Cell Western, Knockdown Validated

**Application Notes**
Use in IP, ChIP, and IHC-Fr reported in scientific literature (PMID: 24032460, 25802280, and 20538044 respectively). In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.
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.

Immunocytochemistry/Immunofluorescence: GAPDH Antibody (1D4) [NB300-221] - Analysis of HeLa cells stained with GAPDH antibody, dilution 1:100 (Green). DAPI staining of nuclear DNA (Blue). The GAPDH antibody produces strong cytoplasmic staining of healthy cells.

Western Blot: GAPDH Antibody (1D4) [NB300-221] - Analysis of cell line lysates probed with mouse mAb to GAPDH (theoretical molecular weight: 36 kDa), 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 housekeeping 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.

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


Hua Rong, Cheng Derrick, Coyaud Etienne et al. VAPs and ACBD5 tether peroxisomes to the ER for peroxisome maintenance and lipid homeostasis. The Journal of Cell Biology 2017 Jan 20 [PMID: 28108526]


Details:
This GAPDH antibody was used as a loading control in a Western Blot experiment to show injury from oxidation increases S800 phosphorylation in cortical neurons.


Details:
This GAPDH antibody was used as a control in a Western Blot experiment to show an increase in neuronal cyclin E1 expression induced by chemical ischemia.


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

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