GAPDH (14C10) Rabbit mAb

Product Usage Information

<table>
<thead>
<tr>
<th>Application</th>
<th>Dilution</th>
<th>Sensitivity</th>
<th>MW (kDa)</th>
<th>Source/Isotype</th>
<th>UniProt ID</th>
<th>Entrez-Gene ID</th>
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<tbody>
<tr>
<td>Western Blotting</td>
<td>1:1000</td>
<td>Endogenous</td>
<td>37</td>
<td>Rabbit</td>
<td>P04406</td>
<td>2597</td>
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<tr>
<td>Immunohistochemistry (Paraffin)</td>
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<td>Immunofluorescence (Immunocytochemistry)</td>
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<td>Flow Cytometry</td>
<td>1:200</td>
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</tbody>
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Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

GAPDH (14C10) Rabbit mAb detects endogenous levels of total GAPDH protein.

Species Reactivity:

Human, Mouse, Rat, Monkey, Bovine, Pig

Species predicted to react based on 100% sequence homology:

Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide near the carboxy terminus of human GAPDH.

Background

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3-phosphate during glycolysis. Though differentially expressed from tissue to tissue (1), GAPDH is thought to be a constitutively expressed housekeeping protein. For this reason, GAPDH mRNA and protein levels are often measured as controls in experiments quantifying specific changes in expression of other targets. Recent work has elucidated roles for GAPDH in apoptosis (2), gene expression (3), and nuclear transport (4). GAPDH may also play a role in neurodegenerative pathologies such as Huntington and Alzheimer’s diseases (4,5).


Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.

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For Research Use Only. Not For Use In Diagnostic Procedures.