

**Anti-GAPDH Antibody-HRP labeled**  
**Mouse monoclonal antibody to GAPDH**  
**Catalog # AP61581****Specification**

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**Anti-GAPDH Antibody-HRP labeled - Product Information**

Application	WB
Primary Accession	<a href="#">P04406</a>
Other Accession	<a href="#">P16858</a>
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Pig, Chicken, SARS, Dog
Host	Mouse
Clonality	Monoclonal
Calculated MW	36053

**Anti-GAPDH Antibody-HRP labeled - Additional Information****Gene ID** 2597**Other Names**GAPD; Glyceraldehyde-3-phosphate dehydrogenase; GAPDH; Peptidyl-cysteine S-nitrosylase  
GAPDH**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence of human GAPDH. The exact sequence is proprietary.

**Dilution**

WB~~WB (1/2000 - 1/5000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-GAPDH Antibody-HRP labeled - Protein Information****Name** GAPDH {ECO:0000303|PubMed:2987855, ECO:0000312|HGNC:HGNC:4141}**Function**

Catalyzes the conversion of D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate in glycolysis and the reverse reaction in gluconeogenesis (PubMed:&lt;a href="http://www.uniprot.org/citations/11724794" target="\_blank"&gt;11724794&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/3170585" target="\_blank"&gt;3170585&lt;/a&gt;). Also shows nitrosylase activity, thereby playing a role in nuclear functions (PubMed:&lt;a href="http://www.uniprot.org/citations/11724794" target="\_blank"&gt;11724794&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/11724794" target="\_blank"&gt;11724794&lt;/a&gt;).

href="http://www.uniprot.org/citations/3170585" target="\_blank">3170585</a>). Modulates the organization and assembly of the cytoskeleton (By similarity). Facilitates the CHP1- dependent microtubule and membrane associations through its ability to stimulate the binding of CHP1 to microtubules (By similarity). Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes (PubMed:<a href="http://www.uniprot.org/citations/23071094" target="\_blank">23071094</a>). Upon interferon-gamma treatment assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation (PubMed:<a href="http://www.uniprot.org/citations/23071094" target="\_blank">23071094</a>). Also plays a role in innate immunity by promoting TNF-induced NF-kappa-B activation and type I interferon production, via interaction with TRAF2 and TRAF3, respectively (PubMed:<a href="http://www.uniprot.org/citations/23332158" target="\_blank">23332158</a>, PubMed:<a href="http://www.uniprot.org/citations/27387501" target="\_blank">27387501</a>). Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis (By similarity). Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC (By similarity).

#### Cellular Location

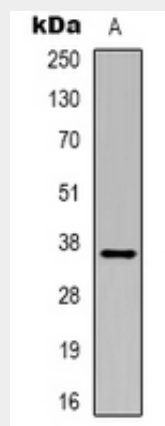
Cytoplasm, cytosol. Nucleus {ECO:0000250|UniProtKB:P04797}. Cytoplasm, perinuclear region. Membrane Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P04797} Note=Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions (PubMed:12829261) {ECO:0000250|UniProtKB:P04797, ECO:0000269|PubMed:12829261}

#### Anti-GAPDH Antibody-HRP labeled - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-GAPDH Antibody-HRP labeled - Images



Western blot analysis of GAPDH-HRP labeled expression in Hela (A) whole cell lysates.

**Anti-GAPDH Antibody-HRP labeled - Background**

KLH-conjugated synthetic peptide encompassing a sequence of human GAPDH. The exact sequence is proprietary.