

**GAPDH Antibody, HRP Conjugate**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8501b**

## Specification

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### GAPDH Antibody, HRP Conjugate - Product Information

Application	WB,E
Primary Accession	<a href="#">P04406</a>
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1

### GAPDH Antibody, HRP Conjugate - Additional Information

**Gene ID** 2597

**Other Names**  
GAPD

#### Target/Specificity

This GAPDH antibody is generated from a mouse immunized with a recombinant protein of human GAPDH.

#### Dilution

WB~~1:1000

#### Format

Purified monoclonal antibody conjugated with HRP supplied in PBS with 0.05% (W/V) Proclin 300. This antibody is purified through a protein G column, followed by size-exclusion - Membrane filtration purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

GAPDH Antibody, HRP Conjugate is for research use only and not for use in diagnostic or therapeutic procedures.

### GAPDH Antibody, HRP Conjugate - Protein Information

**Name** GAPDH {ECO:0000303|PubMed:2987855, ECO:0000312|HGNC:HGNC:4141}

**Function** Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively (PubMed:[11724794](#), PubMed:[3170585](#)). Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D- glyceraldehyde 3-phosphate (G3P) into

3-phospho-D-glyceroyl phosphate (PubMed:[11724794](#), PubMed:[3170585](#)). 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:[23071094](#)). 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:[23071094](#)). 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:[23332158](#), PubMed:[27387501](#)). 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

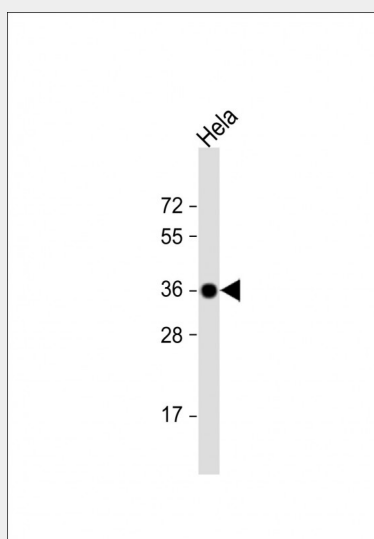
Cytoplasm, cytosol. Nucleus {ECO:0000250|UniProtKB:P04797}. Cytoplasm, perinuclear region. Membrane Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P04797} Note=Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity).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

#### GAPDH Antibody, HRP Conjugate - Protocols

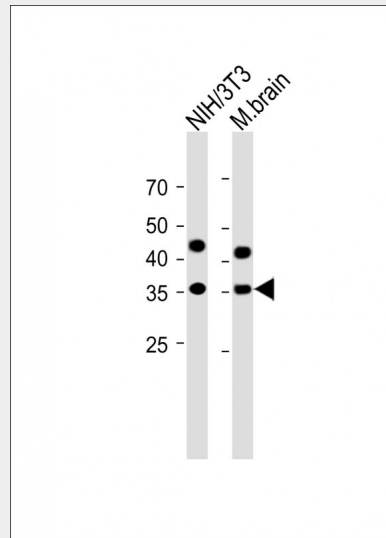
Provided below are standard protocols that you may find useful for product applications.

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

#### GAPDH Antibody, HRP Conjugate - Images



Anti-GAPDH Antibody, HRP Conjugate at 1:40000 dilution + Hela whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Predicted band size : 36 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-GAPDH Antibody(conjugated HRP) at 1:1000 dilution Lane 1:NIH/3T3 whole cell lysate Lane 1:mouse brain lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 36kDa Blocking/Dilution buffer: 5% NFDM/TBST.