

Product datasheet

Recombinant Mouse GAPDH protein ab202148

1 Image

Description

Product name	Recombinant Mouse GAPDH protein	
Purity	> 95 % SDS-PAGE. ab202148 was purified using conventional chromatography techniques.	
Expression system	Escherichia coli	
Accession	<u>P16858</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Mouse	
Sequence	MGSSHHHHHHSSGLVPRGSHMGSMVKVGVNGFGRIGRL VTRAAICSGKVE IAINDPFIDLNYMVYMFQYDSTHGKFNGTVKAENGKLVING KPITIFQE RDPTNIKWGEAGAEYVVESTGVFTTMEKAGAHKGGAKR VIISAPSADAP MFVMGVNHEKYDNSLKIVSNASCTTNCLAPLAKVIHDNFGI VEGLMTTVH AITATQKTVDGPSTGKLRDGRGAAQNIIPASTGAAKAVGK VIPELNGKLT GMAFRVPTPNVSVVDLTCRLEKPAKYDDIKKVVVKQASEG PLKGILGYTED QVVSCDFNSNSHSSTFDAGAGIALNDNFVKLISWYDNEYG YSNRVVDLMA YMASKE	
Predicted molecular weight	38 kDa including tags	
Amino acids	1 to 333	
Tags	His tag N-Terminus	
Additional sequence information	NP_032110.	

Specifications

Our **Abpromise guarantee** covers the use of **ab202148** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

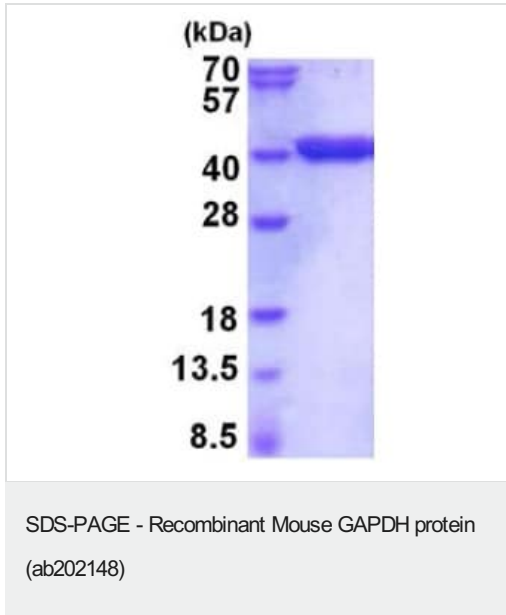
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituents: 20% Glycerol (glycerin, glycerine), 0.02% DTT, 79% PBS
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General Info

Function	Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. 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). 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.
Pathway	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5.
Sequence similarities	Belongs to the glyceraldehyde-3-phosphate dehydrogenase family.
Post-translational modifications	S-nitrosylation of Cys-152 leads to interaction with SIAH1, followed by translocation to the nucleus. ISGylated.
Cellular localization	Cytoplasm > cytosol. Nucleus. Cytoplasm > perinuclear region. Membrane. Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions.

Images



15% SDS-PAGE analysis of ab202148 (3 µg).

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