

Datasheet for ABIN7504953

GAPDH Protein (AA 1-333) (His tag)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	GAPDH
Protein Characteristics:	AA 1-333
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAPDH protein is labelled with His tag.
Application:	Immunogen (Imm)

Product Details

Sequence:	Met1-Glu333
Characteristics:	A DNA sequence encoding the Human GAPDH (P04406) (1M-333E) was expressed with a polyhistidine tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	GAPDH
Alternative Name:	GAPDH (GAPDH Products)
Background:	Abbreviation: GAPDH Target Synonym: Aging associated gene 9 protein, Epididymis secretory sperm binding protein Li 162eP, G3P, G3PD, G3PDH, GAPD, GAPDH, Glyceraldehyde 3 phosphate

Target Details

dehydrogenase,Glyceraldehyde-3-phosphate dehydrogenase,HEL S 162eP,Peptidyl-cysteine S-nitrosylase GAPDH

Background: 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. Modulates the organization and assembly of the cytoskeleton. Facilitates the CHP1-dependent microtubule and membrane associations through its ability to stimulate the binding of CHP1 to microtubules (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. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. 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.

Molecular Weight: Calculated MW: 37.1 kDa
Observed MW: 34-37 kDa

UniProt: [P04406](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: used as Immunogen for (ABIN6999908, ABIN7234256, ABIN7234257 and ABIN7234258)

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Handling

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months