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(DANRE) gapdh Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # Azb18698c

Product Information

Application	WB, E
Primary Accession	Q5XJ10
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB46516
Calculated MW	35784

Additional Information

Gene ID	317743
Other Names	Glyceraldehyde-3-phosphate dehydrogenase, Peptidyl-cysteine S-nitrosylase GAPDH, 2699-, gapdh {ECO:0000312|ZFIN:ZDB-GENE-030115-1}
Target/Specificity	This (DANRE) gapdh antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 273-298 amino acids from the C-terminal region of DANRE gapdh.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity 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	(DANRE) gapdh Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

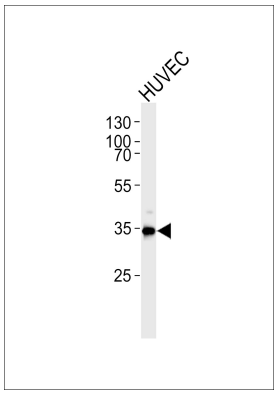
Name	gapdh {ECO:0000312|ZFIN:ZDB-GENE-030115-1}
Function	Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate

	(By similarity). 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).
Cellular Location	Cytoplasm, cytosol {ECO:0000250|UniProtKB:P04797}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P04797}. Nucleus {ECO:0000250|UniProtKB:P04797}

Background

Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. 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. Modulates the organization and assembly of the cytoskeleton. Also 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 (By similarity).

Images



Western blot analysis of lysate from HUVEC cell line, using (DANRE) gapdh Antibody (C-term)(Cat. #Azb18698c). Azb18698c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.