

PDZD8 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59118

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8NEN9
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	128563
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PDZD8
Epitope Specificity	901-1000/1154
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 PDZ (DHR) domain. Contains 1 phorbol-ester/DAG-type zinc finger.
SUBUNIT	Interacts with MSN. Interacts with HIV-1 Gag polyprotein p55.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PDZD8 contains a PDZ domain. PDZ domains are protein-interaction domains that are often found in multi-domain scaffolding proteins. The function of this protein remains unknown.

Additional Information

Gene ID	118987
Other Names	PDZ domain-containing protein 8, Sarcoma antigen NY-SAR-84/NY-SAR-104, PDZD8 (HGNC:26974), PDZK8
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PDZD8 (HGNC:26974)
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Synonyms

PDZK8

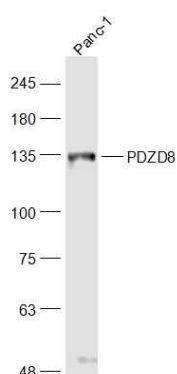
Function

Molecular tethering protein that connects endoplasmic reticulum and mitochondria membranes (PubMed:[29097544](#)). PDZD8-dependent endoplasmic reticulum-mitochondria membrane tethering is essential for endoplasmic reticulum-mitochondria Ca^{2+} transfer (PubMed:[29097544](#)). In neurons, involved in the regulation of dendritic Ca^{2+} dynamics by regulating mitochondrial Ca^{2+} uptake in neurons (PubMed:[29097544](#)). Plays an indirect role in the regulation of cell morphology and cytoskeletal organization (PubMed:[21834987](#)). May inhibit herpes simplex virus 1 infection at an early stage (PubMed:[21549406](#)).

Cellular Location

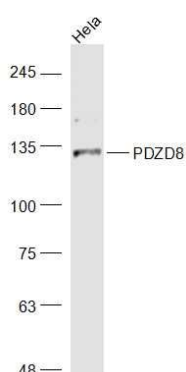
Endoplasmic reticulum membrane; Single-pass membrane protein.
Note=Localizes at mitochondria-endoplasmic reticulum contact sites.

Images



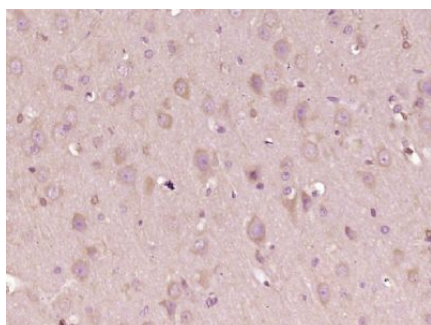
Sample:

Panc-1(Human) Cell Lysate at 30 ug
Primary: Anti-PDZD8 (AP59118) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 128 kD
Observed band size: 130kD



Sample:

HeLa(Human) Cell Lysate at 30 ug
Primary: Anti-PDZD8 (AP59118) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 128 kD
Observed band size: 130 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PDZD8 Polyclonal Antibody, Unconjugated (AP59118) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.