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DNMBP Rabbit pAb

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Catalog # AP58953

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q6XZF7
Predicted	Human, Mouse, Rat, Dog, Pig, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	177347
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DNMBP
Epitope Specificity	1101-1300/1577
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm (By similarity). Golgi apparatus, Golgi stack (By similarity). Cytoplasm, cytoskeleton (By similarity). Cell junction, synapse (By similarity). Note=Localized to synapses and Golgi stacks (By similarity).
SIMILARITY	Contains 1 BAR domain.Contains 1 DH (DBL-homology) domain. Contains 6 SH3 domains.
SUBUNIT	Binds DNM1 via its N-terminal SH3 domains. The C-terminal SH3 domain binds a complex containing actin, tubulin, Hsp70 and actin-regulatory proteins, such as ENAH, EVL, WASL, WIRE, CR16, WAVE1 and NAP1L1 (By similarity). Interacts with FASLG.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DNMBP, also known as Scaffold protein TUBA, is a 1,577 amino acid protein that localizes to a variety of locations within the cell, including the cytoplasm, cytoskeleton, cell junction and Golgi apparatus, and contains one BAR domain, one DH domain and six SH3 domains. Expressed in kidney, heart, lung, liver, brain, pancreas and skeletal muscle, Tuba functions as a scaffold protein that links Dynamin with Actin-regulating proteins and is thought to play a role in protein trafficking between the golgi and the cell surface. Two isoforms of Tuba exist due to alternative splicing events. The gene encoding Tuba maps to human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromatic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

Additional Information

Gene ID	23268

Other Names	Dynamin-binding protein {ECO:0000312|HGNC:HGNC:30373}, Scaffold protein Tuba, DNMBP (HGNC:30373)
Target/Specificity	Detected in heart, brain, lung, liver, skeletal muscle, kidney and pancreas.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	DNMBP (HGNC:30373)
Function	Plays a critical role as a guanine nucleotide exchange factor (GEF) for CDC42 in several intracellular processes associated with the actin and microtubule cytoskeleton. Regulates the structure of apical junctions through F-actin organization in epithelial cells (PubMed:17015620, PubMed:19767742). Participates in the normal lumenogenesis of epithelial cell cysts by regulating spindle orientation (PubMed:20479467). Plays a role in ciliogenesis (By similarity). May play a role in membrane trafficking between the cell surface and the Golgi (By similarity).
Cellular Location	Cytoplasm. Golgi apparatus, Golgi stack {ECO:0000250|UniProtKB:Q6TXD4}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q6TXD4}. Synapse {ECO:0000250|UniProtKB:M0R4F8}. Cell junction. Note=Localizes to the apical junction, colocalizes with TJP1.
Tissue Location	Detected in heart, brain, lung, liver, skeletal muscle, kidney and pancreas.

Background

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