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DOCK9 Rabbit pAb

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Catalog # AP94164

Product Information

Application	WB
Primary Accession	Q9BZ29
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	236446
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DOCK9
Epitope Specificity	1451-1550/2069
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	Intracytoplasmic membrane
SIMILARITY	Belongs to the DOCK family.Contains 1 DHR-1 domain.Contains 1 DHR-2 domain. Contains 1 PH domain.
SUBUNIT	Homodimer (Probable). Interacts preferentially with nucleotide-depleted CDC42.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DOCK9 is a 2,069 amino acid protein that localizes to the intracytoplasmic membrane and contains one PH domain, one DHR-1 domain and one DHR-2 domain. Expressed in a variety of tissues with highest expression in placenta and heart and lower expression in lung, kidney, brain and skeletal muscle, Zizimin-1 functions as a guanine nucleotide-exchange factor (GEF) that specifically activates Cdc42 by exchanging bound GDP for free GTP. Four isoforms of Zizimin-1 exist due to alternative splicing events. The gene encoding Zizimin-1 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

Additional Information

Gene ID	23348
Other Names	Dedicator of cytokinesis protein 9, Cdc42 guanine nucleotide exchange factor zizimin-1, Zizimin-1, DOCK9 (HGNC:14132)
Dilution	WB=1:500-2000

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	DOCK9 (HGNC:14132)
Function	Guanine nucleotide-exchange factor (GEF) that activates CDC42 by exchanging bound GDP for free GTP. Overexpression induces filopodia formation.
Cellular Location	Endomembrane system. Note=Associated with membranes.
Tissue Location	Widely expressed, with highest expression in heart and placenta. Expressed at intermediate level in kidney, brain, lung and skeletal muscle.

Background

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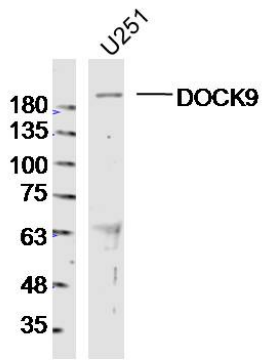
Images



Sample: U251 Cell Lysate at 40 ug Primary: Anti-DOCK9 (AP94164) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 236 kD Observed band size: 236 kD