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DOCK1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58600

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q14185
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	215346
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DOCK1
Epitope Specificity	465-550/1865
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm (Probable). Membrane (Probable). Note=Recruited to membranes via its interaction with phosphatidylinositol 3,4,5-trisphosphate (Probable).
SIMILARITY	Belongs to the DOCK family. Contains 1 DHR-1 domain. Contains 1 DHR-2 domain. Contains 1 SH3 domain.
SUBUNIT	Interacts with the SH3 domains of CRK and NCK2 via multiple sites. Interacts with nucleotide-free RAC1 via its DHR-2 domain. Interacts with ELMO1, ELMO2 and probably ELMO3 via its SH3 domain. Interacts with RAC1 and BAI1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Functions as a guanine nucleotide exchange factor (GEF), which activates Rac Rho small GTPases by exchanging bound GDP for free GTP. Its GEF activity may be enhanced by ELMO1. Tissue specificity: Highly expressed in placenta, lung, kidney, pancreas and ovary. Expressed at intermediate level in thymus, testes and colon.

Additional Information

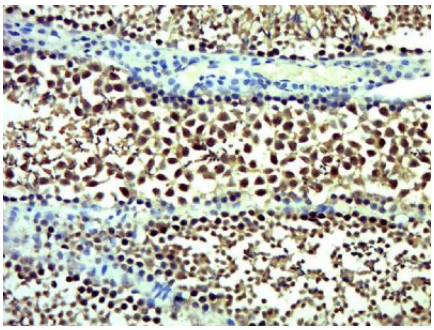
Gene ID	1793
Other Names	Dedicator of cytokinesis protein 1, 180 kDa protein downstream of CRK, DOCK180, DOCK1
Target/Specificity	Highly expressed in placenta, lung, kidney, pancreas and ovary. Expressed at intermediate level in thymus, testes and colon.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	DOCK1
Function	Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Along with DOCK1, mediates CRK/CRKL regulation of epithelial and endothelial cell spreading and migration on type IV collagen (PubMed:19004829). Functions as a guanine nucleotide exchange factor (GEF), which activates Rac Rho small GTPases by exchanging bound GDP for free GTP. Its GEF activity may be enhanced by ELMO1 (PubMed:8657152).
Cellular Location	Cytoplasm. Membrane. Note=Recruited to membranes via its interaction with phosphatidylinositol 3,4,5-trisphosphate.
Tissue Location	Highly expressed in placenta, lung, kidney, pancreas and ovary. Expressed at intermediate level in thymus, testes and colon

Images



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); 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 (DOCK1) Polyclonal Antibody, Unconjugated (AP58600) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.