

Rabbit anti-Human, Mouse DOCK1 Polyclonal Antibody | anti-DOCK1 antibody

DOCK1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324656	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

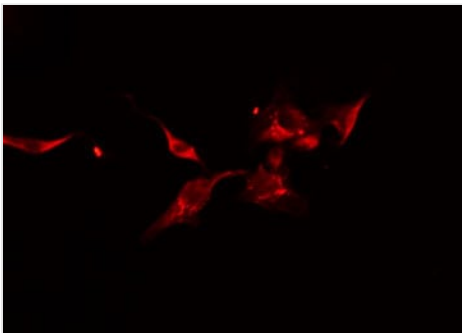
PRODUCT SYNONYMS

DOCK1; Polyclonal Antibody; DOCK1 Antibody; 180 kDa protein downstream of CRK; Ced5; Dedicator of Cytokinesis 1; Dedicator of cytokinesis protein 1; DOCK 1; DOCK 180; DOCK1_HUMAN; DOCK180; anti-DOCK1 antibody

PRODUCT SPECIFICATIONS

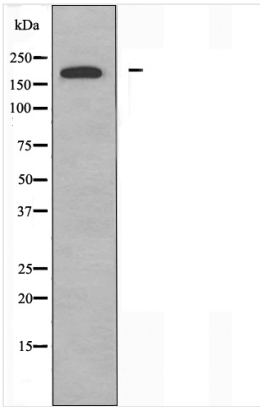
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	DOCK1 antibody detects endogenous levels of total DOCK1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1865
Applicable Applications for anti-DOCK1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Membrane. Recruited to membranes via its interaction with phosphatidylinositol 3, 4, 5-triphosphate.
Tissue Specificity	Highly expressed in placenta, lung, kidney, pancreas and ovary. Expressed at intermediate level in thymus, testes and colon.
Predicted Cross Reactivity	Zebrafish, Dog
Similarity	Zebrafish (86%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324656 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HeLa cells, using DOCK1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-DOCK1 antibody

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).

Subunit Structure: Interacts with the SH3 domains of CRK and NCK2 via multiple sites (PubMed:8657152, PubMed:8662907, PubMed:11240126). Interacts with nucleotide-free RAC1 via its DHR-2 domain (PubMed:9808620, PubMed:12134158). Interacts with ELMO1, ELMO2 and probably ELMO3 via its SH3 domain (PubMed:12134158). Interacts with ADGRB1. Identified in a complex with AUTS2 and ELMO2 (By similarity).

Similarity: The DHR-2 domain is necessary and sufficient for the GEF activity. Belongs to the DOCK family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503355
NCBI GeneID	1793
NCBI Accession #	NP_001371.1
NCBI GenBank Nucleotide #	NM_001380.4
UniProt Accession #	Q14185; A9Z1Z5
Molecular Weight	Observed: 215 kD Predicted: 216 kDa
NCBI Official Full Name	dedicator of cytokinesis protein 1 isoform 2
NCBI Official Synonym Full Names	dedicator of cytokinesis 1
NCBI Official Symbol	DOCK1
NCBI Official Synonym Symbols	ced5; DOCK180
NCBI Protein Information	dedicator of cytokinesis protein 1
UniProt Protein Name	Dedicator of cytokinesis protein 1
UniProt Gene Name	DOCK1
UniProt Synonym Gene Names	DOCK180

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/dock1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324656>