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ELMO1 Rabbit pAb

Catalog # AP97194

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q92556
Other Accession	Q92556
Predicted	Rat, Human, Mouse, Rabbit, Chicken, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83829
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ELMO.
Epitope Specificity	581-680/727
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 ELMO domain.Contains 1 PH domain.
SUBUNIT	Interacts with BAI1 (By similarity). Interacts directly with the SH3-domain of DOCK1 via its SH3-binding site. Part of a complex with DOCK1 and RAC1. Part of a complex with DOCK1 and CRK isoform CRK-II. Interacts with PLEKHG6. Interacts with HCK (via SH3 domain).
Post-translational modifications	Phosphorylated by HCK (Probable).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ELMO1 is involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. ELMO1 acts in association with DOCK1 and CRK and was initially proposed to be required in complex with DOCK1 to activate Rac Rho small GTPases. It is belived to enhance the guanine nucleotide exchange factor (GEF) activity of DOCK1.

Additional Information

Gene ID	9844
Other Names	CED-12; CED12; ELMO-1; 6330578D22Rik; C230095H21Rik; ELMO1s; ELMO1_HUMAN; ELMO1; Protein ced-12 homolog; KIAA0281; ELMO1_MOUSE; engulfment and cell motility 1; engulfment and cell motility 1 (ced-12 homolog, C. elegans)
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	ELMO1
Synonyms	KIAA0281
Function	Regulates the activity of DOCK guanine nucleotide exchange factors (GEFs) (PubMed:11595183, PubMed:12134158, PubMed:32651375, PubMed:38857861). Acts in association with DOCK1, DOCK2, DOCK5 and CRK (PubMed:11595183, PubMed:12134158, PubMed:32651375, PubMed:38857861). Promotes RAC1 activation by DOCK5; the activity is stimulated by RHOG (PubMed:38857861). Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility (PubMed:11595183).
Cellular Location	Cytoplasm. Cell membrane. Note=Translocation to plasma membrane seems to be mediated by DOCK1 and CRK
Tissue Location	Widely expressed, with a higher expression in the spleen and placenta

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