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ELMO2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11106c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q96JJ3
Other Accession	Q8BHL5, A4FUD6, NP_877496.1, NP_573403.1
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17959
Calculated MW	82615
Antigen Region	323-350

Additional Information

Gene ID	63916
Other Names	Engulfment and cell motility protein 2, Protein ced-12 homolog A, hCed-12A, ELMO2, CED12A, KIAA1834
Target/Specificity	This ELMO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 323-350 amino acids from the Central region of human ELMO2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ELMO2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ELMO2
Synonyms	CED12A, KIAA1834

Function	Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Acts in association with DOCK1 and CRK. Was initially proposed to be required in complex with DOCK1 to activate Rac Rho small GTPases. May enhance the guanine nucleotide exchange factor (GEF) activity of DOCK1.
Cellular Location	Cytoplasm. Cytoplasm, cytosol. Membrane
Tissue Location	Widely expressed, with a higher expression in skeletal muscle, kidney and placenta.

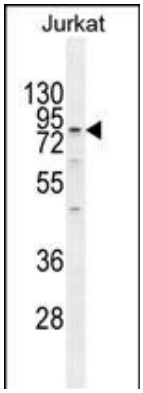
Background

The protein encoded by this gene interacts with the dedicator of cyto-kinesis 1 protein. Similarity to a C. elegans protein suggests that this protein may function in phagocytosis of apoptotic cells and in cell migration. Alternative splicing results in multiple transcript variants encoding the same protein.

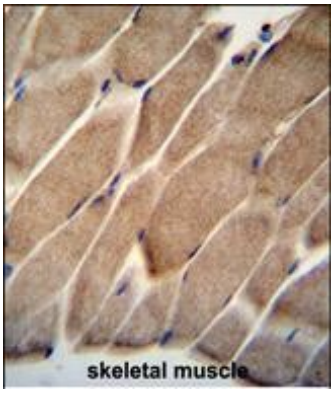
References

Bento, J.L., et al. Genomics 92(4):226-234(2008)
Rikova, K., et al. Cell 131(6):1190-1203(2007)
Zhang, Y., et al. Mol. Cell Proteomics 4(9):1240-1250(2005)
Zhang, Y., et al. Mol. Cell Proteomics 4(9):1240-1250(2005)
Castelo, R., et al. Nucleic Acids Res. 33(6):1935-1939(2005)

Images

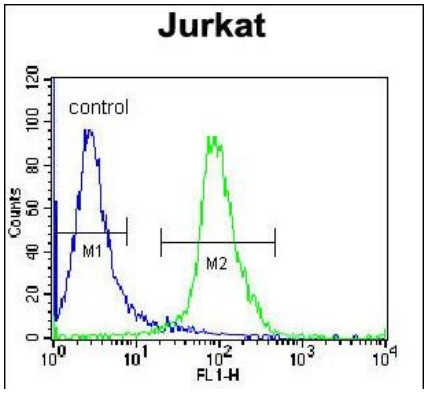


ELMO2 Antibody (Center) (Cat. #AP11106c) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the ELMO2 antibody detected the ELMO2 protein (arrow).



ELMO2 Antibody (Center) (Cat. #AP11106c)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ELMO2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ELMO2 Antibody (Center) (Cat. #AP11106c) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary



antibodies were used for the analysis.