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KLHL2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17585a

Product Information

Application	WB, E
Primary Accession	O95198
Other Accession	F1LZF0, Q8JZP3, NP_001154993.1
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37594
Calculated MW	65975
Antigen Region	77-103

Additional Information

Gene ID	11275
Other Names	Kelch-like protein 2, Actin-binding protein Mayven, KLHL2
Target/Specificity	This KLHL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 77-103 amino acids from the N-terminal region of human KLHL2.
Dilution	WB~~1:1000 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	KLHL2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KLHL2 {ECO:0000303|PubMed:23838290, ECO:0000312|HGNC:HGNC:6353}
Function	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex that mediates the ubiquitination of target proteins, such as NPTXR, WNK1, WNK3 and WNK4, leading most often to their proteasomal degradation

	(PubMed:23838290). The BCR(KLHL2) complex catalyzes ubiquitination and degradation of NPTXR (By similarity). Responsible for degradative ubiquitination of the WNK kinases WNK1, WNK3 and WNK4 (PubMed:23838290). Plays a role in the reorganization of the actin cytoskeleton (PubMed:10397770). Promotes growth of cell projections in oligodendrocyte precursors (PubMed:15715669).
Cellular Location	Cytoplasm, cytoskeleton. Cell projection, ruffle {ECO:0000250|UniProtKB:Q8JZP3}. Cell projection. Cell projection, lamellipodium {ECO:0000250|UniProtKB:F1LZF0}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q8JZP3}. Note=A proportion colocalizes with the actin cytoskeleton (PubMed:10397770). When over-expressed, colocalizes with NPTXR in perinuclear aggresomes (By similarity) {ECO:0000250|UniProtKB:Q8JZP3, ECO:0000269|PubMed:10397770}
Tissue Location	Ubiquitous. Detected throughout the brain.

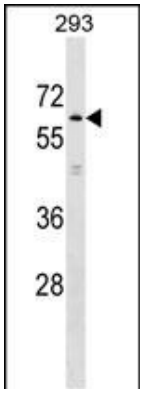
Background

KLHL2 may play a role in organizing the actin cytoskeleton of the brain cells.

References

Rose, J. Phd, et al. Mol. Med. (2010) In press :
Williams, S.K., et al. J. Neurosci. Res. 81(5):622-631(2005)
Bu, X., et al. Oncogene 24(14):2398-2409(2005)
Soltysik-Espanola, M., et al. Mol. Biol. Cell 10(7):2361-2375(1999)

Images



KLHL2 Antibody (N-term) (Cat. #AP17585a) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the KLHL2 antibody detected the KLHL2 protein (arrow).

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