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KCTD13 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17375b

Product Information

Application	WB, E
Primary Accession	Q8WZ19
Other Accession	Q7TPL3, Q922M3, Q9H3F6, Q5EAX2, Q7TNY1, O70479, Q13829, Q5F3E8, Q8BGV7, Q2T9W0, NP_849194.1
Reactivity	Human, Mouse
Predicted	Bovine, Mouse, Chicken, Rat, Xenopus, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37916
Calculated MW	36357
Antigen Region	229-258

Additional Information

Gene ID	253980
Other Names	BTB/POZ domain-containing adapter for CUL3-mediated RhoA degradation protein 1, hBACURD1, BTB/POZ domain-containing protein KCTD13, Polymerase delta-interacting protein 1, TNFAIP1-like protein, KCTD13, BACURD1, PDIP1, POLDIP1
Target/Specificity	This KCTD13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 229-258 amino acids from the C-terminal region of human KCTD13.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	KCTD13 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KCTD13

Function	Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex required for synaptic transmission (PubMed:19782033). The BCR(KCTD13) E3 ubiquitin ligase complex mediates the ubiquitination of RHOA, leading to its degradation by the proteasome (PubMed:19782033) Degradation of RHOA regulates the actin cytoskeleton and promotes synaptic transmission (By similarity). Mediates also the ubiquitination and degradation of GluN1/GRIN1 to regulate excitatory synaptic transmission and seizure susceptibility (PubMed:37142655).
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Expressed in a wide variety of tissues.

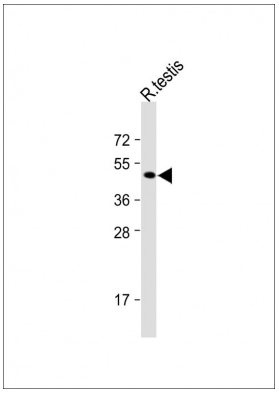
Background

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex involved in regulation of cytoskeleton structure. The BCR(BACURD1) E3 ubiquitin ligase complex mediates the ubiquitination of RHOA, leading to its degradation by the proteasome, thereby regulating the actin cytoskeleton and cell migration.

References

Chen, Y., et al. Mol. Cell 35(6):841-855(2009)
Tomaru, T., et al. Endocrinology 147(1):377-388(2006)
Zhou, J., et al. J. Exp. Zoolog. Part A Comp. Exp. Biol. 303(3):227-240(2005)
Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004)
Kutsenko, A.S., et al. Nucleic Acids Res. 30(14):3163-3170(2002)

Images



All lanes : Anti-KCTD13 Antibody (C-term) at 1:1000 dilution Lane 1: rat testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 42kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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