10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ZRANB1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9830b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9UGI0
Other Accession	Q7M760, A6QP16
Reactivity	Human, Mouse
Predicted	Bovine, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23203
Calculated MW	80967
Antigen Region	665-692

Additional Information

Gene ID	54764
Other Names	Ubiquitin thioesterase ZRANB1, TRAF-binding domain-containing protein, hTrabid, Zinc finger Ran-binding domain-containing protein 1, ZRANB1, TRABID
Target/Specificity	This ZRANB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 665-692 amino acids from the C-terminal region of human ZRANB1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	ZRANB1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZRANB1 {ECO:0000303|PubMed:21834987, ECO:0000312|HGNC:HGNC:18224}

Function	Ubiquitin thioesterase, which specifically hydrolyzes 'Lys- 29'-linked and 'Lys-33'-linked diubiquitin (PubMed:22157957, PubMed:23827681, PubMed:25752573, PubMed:25752577). Also cleaves 'Lys- 63'-linked chains, but with 40-fold less efficiency compared to 'Lys- 29'-linked ones (PubMed:18281465). Positive regulator of the Wnt signaling pathway that deubiquitinates APC protein, a negative regulator of Wnt-mediated transcription (PubMed:18281465). Acts as a regulator of autophagy by mediating deubiquitination of PIK3C3/VPS34, thereby promoting autophagosome maturation (PubMed:33637724). Plays a role in the regulation of cell morphology and cytoskeletal organization (PubMed:21834987). Required in the stress fiber dynamics and cell migration (PubMed:21834987).
Cellular Location	Cytoplasm. Nucleus. Note=Enriched in punctate localization in the cytoplasm.
Tissue Location	Widely expressed..

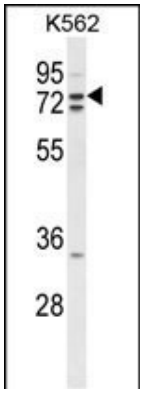
Background

ZRANB1 is a positive regulator of the Wnt signaling pathway that specifically cleaves 'Lys-63'-linked ubiquitin chains. It acts by deubiquitinating APC protein, a negative regulator of Wnt-mediated transcription and may also modulate TNF-alpha signaling.

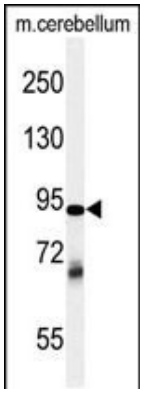
References

Tran, H., et al. Genes Dev. 22(4):528-542(2008)
Evans, P.C., et al. Biochem. J. 357 (PT 3), 617-623 (2001)

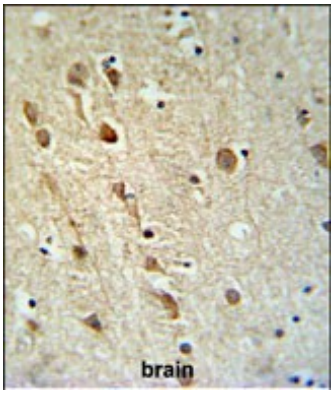
Images



Western blot analysis of ZRANB1 Antibody (C-term) (Cat. #AP9830b) in K562 cell line lysates (35ug/lane). ZRANB1 (arrow) was detected using the purified Pab.



Western blot analysis of ZRANB1 Antibody (C-term) (Cat. #AP9830b) in mouse cerebellum tissue lysates (35ug/lane). ZRANB1 (arrow) was detected using the purified Pab.



ZRANB1 Antibody (C-term) (Cat. #AP9830b) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ZRANB1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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