

TRPC4AP Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18682a

Product Information

Application	WB, E
Primary Accession	Q8TEL6
Other Accession	NP_056453.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38628
Calculated MW	90852
Antigen Region	49-75

Additional Information

Gene ID	26133
Other Names	Short transient receptor potential channel 4-associated protein, Trp4-associated protein, Trpc4-associated protein, Protein TAP1, TNF-receptor ubiquitous scaffolding/signaling protein, Protein TRUSS, TRPC4AP, C20orf188, TRRP4AP
Target/Specificity	This TRPC4AP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 49-75 amino acids from the N-terminal region of human TRPC4AP.
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	TRPC4AP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TRPC4AP {ECO:0000303 PubMed:20551172, ECO:0000312 HGNC:HGNC:16181}
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Function	Substrate-recognition component of a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex required for cell cycle control (PubMed: 20551172 , PubMed: 29779948). The DCX(TRPC4AP) complex specifically mediates the polyubiquitination and subsequent degradation of MYC as part of the DesCEND (destruction via C-end degrons) pathway (PubMed: 20551172 , PubMed: 29779948). The DesCEND (destruction via C-end degrons) pathway recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed: 29779948). The DCX(TRPC4AP) complex specifically recognizes proteins with an arginine at the minus 3 position (R-3 motif) at the C-terminus, such as MYC, leading to their ubiquitination and degradation (PubMed: 29779948). Also participates in the activation of NFKB1 in response to ligation of TNFRSF1A, possibly by linking TNFRSF1A to the IKK signalosome (By similarity). Involved in JNK activation via its interaction with TRAF2 (By similarity). Also involved in elevation of endoplasmic reticulum Ca(2+) storage reduction in response to CHRM1 (By similarity).
Cellular Location	Cytoplasm, perinuclear region

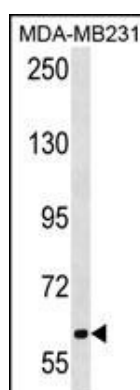
Background

Substrate-specific adapter of a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex required for cell cycle control. The DCX(TRUSS) complex specifically mediates the polyubiquitination and subsequent degradation of MYC. Also participates in the activation of NFKB1 in response to ligation of TNFRSF1A, possibly by linking TNFRSF1A to the IKK signalosome. Involved in JNK activation via its interaction with TRAF2. Also involved in elevation of endoplasmic reticulum Ca(2+) storage reduction in response to CHRM1.

References

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Choi, S.H., et al. Genes Dev. 24(12):1236-1241(2010)
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Poduslo, S.E., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (1), 50-55 (2009) :
Tsang, H.T., et al. Genomics 88(3):333-346(2006)

Images



TRPC4AP Antibody (N-term) (Cat. #AP18682a) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the TRPC4AP antibody detected the TRPC4AP protein (arrow).

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