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# TRPC4AP Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18682a

## Product Information

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| **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

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| **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

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| **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 |

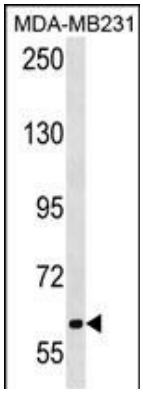
## Background

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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## 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'.