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PAT1(APPBP2) Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7274c

Product Information

Application	WB, E
Primary Accession	Q92624
Other Accession	A5HK05, Q9DAX9, NP_006371
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB8985
Calculated MW	66853
Antigen Region	242-271

Additional Information

Gene ID	10513
Other Names	Amyloid protein-binding protein 2, Amyloid beta precursor protein-binding protein 2, APP-BP2, Protein interacting with APP tail 1, APPBP2, KIAA0228, PAT1
Target/Specificity	This PAT1(APPBP2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 242-271 amino acids from the Central region of human PAT1(APPBP2).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, 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	PAT1(APPBP2) Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	APPBP2 {ECO:0000303|PubMed:26138980, ECO:0000312|HGNC:HGNC:622}
Function	Substrate-recognition component of a Cul2-RING (CRL2) E3

ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed:29775578, PubMed:29779948, PubMed:37844242). The C- degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms (PubMed:29775578, PubMed:29779948, PubMed:37844242). The CRL2(APPBP2) complex specifically recognizes proteins with a -Arg-Xaa-Xaa-Gly degron at the C-terminus, leading to their ubiquitination and degradation (PubMed:29775578, PubMed:29779948, PubMed:37844242). The CRL2(APPBP2) complex mediates ubiquitination and degradation of truncated SELENOV selenoproteins produced by failed UGA/Sec decoding, which end with a -Arg-Xaa-Xaa-Gly degron (PubMed:26138980, PubMed:37844242). The CRL2(APPBP2) complex negatively regulates beige adipocyte differentiation by mediating ubiquitination and degradation of PRDM16 (By similarity). May play a role in intracellular protein transport: may be involved in the translocation of APP along microtubules toward the cell surface (PubMed:9843960).

Cellular Location

Nucleus. Cytoplasm, cytoskeleton. Membrane; Peripheral membrane protein. Note=Associated with membranes and microtubules.

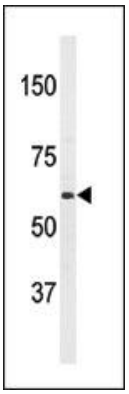
Background

APPBP2 interacts with microtubules and is functionally associated with beta-amyloid precursor protein transport and/or processing. The beta-amyloid precursor protein is a cell surface protein with signal-transducing properties, and it is thought to play a role in the pathogenesis of Alzheimer's disease. This protein has been found to be highly expressed in breast cancer.

References

Zheng,P., Proc. Natl. Acad. Sci. U.S.A. 95 (25), 14745-14750 (1998)

Images



Western blot analysis of anti-PAT1(APPBP2) Antibody (Center) (Cat. #AP7274c) in HL60 cell line lysates (35ug/lane). PAT1(arrow) was detected using the purified Pab.

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