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

PJA2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17220c

Product Information

Application	WB, E
Primary Accession	O43164
Other Accession	NP_055634.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36910
Calculated MW	78214
Antigen Region	284-311

Additional Information

Gene ID	9867
Other Names	E3 ubiquitin-protein ligase Praja-2, Praja2, 632-, RING finger protein 131, PJA2, KIAA0438, RNF131
Target/Specificity	This PJA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 284-311 amino acids from the Central region of human PJA2.
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	PJA2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PJA2
Synonyms	KIAA0438, RNF131
Function	Has E2-dependent E3 ubiquitin-protein ligase activity (PubMed: 12036302,

PubMed:21423175). Responsible for ubiquitination of cAMP-dependent protein kinase type I and type II-alpha/beta regulatory subunits and for targeting them for proteasomal degradation. Essential for PKA-mediated long-term memory processes (PubMed:21423175). Through the ubiquitination of MFHAS1, positively regulates the TLR2 signaling pathway that leads to the activation of the downstream p38 and JNK MAP kinases and promotes the polarization of macrophages toward the pro- inflammatory M1 phenotype (PubMed:28471450). Plays a role in ciliogenesis by ubiquitinating OFD1 (PubMed:33934390).

Cellular Location

Cytoplasm. Cell membrane. Endoplasmic reticulum membrane; Peripheral membrane protein. Golgi apparatus membrane; Peripheral membrane protein. Synapse {ECO:0000250|UniProtKB:Q63364} Postsynaptic density {ECO:0000250|UniProtKB:Q63364}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Localizes at the cytoplasmic side of endoplasmic reticulum and Golgi apparatus (PubMed:21423175) Expressed in the postsynaptic density region of synapses (By similarity). Colocalizes with PRKAR2A and PRKAR2B in the cytoplasm and the cell membrane (PubMed:21423175). {ECO:0000250|UniProtKB:Q63364, ECO:0000269|PubMed:21423175}

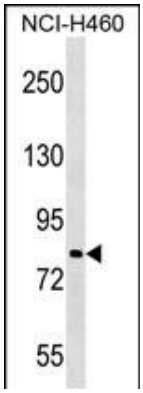
Background

PJA2 has E2-dependent E3 ubiquitin-protein ligase activity (By similarity).

References

Olsen, J.V., et al. Cell 127(3):635-648(2006)
Sasaki, A., et al. J. Biol. Chem. 277(25):22541-22546(2002)
Yu, P., et al. Genomics 79(6):869-874(2002)
Mishra, L., et al. Oncogene 15(19):2361-2368(1997)
Nakayama, M., et al. J. Neurosci. 15 (7 PT 2), 5238-5248 (1995) :

Images



PJA2 Antibody (Center) (Cat. #AP17220c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PJA2 antibody detected the PJA2 protein (arrow).

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