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

Praja2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51429

Product Information

Application	WB, IHC-P
Primary Accession	O43164
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78214

Additional Information

Gene ID	9867
Other Names	E3 ubiquitin-protein ligase Praja-2, Praja2, 632-, RING finger protein 131, PJA2, KIAA0438, RNF131
Dilution	WB~~1:1000 IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

Has E2-dependent E3 ubiquitin-protein ligase activity. 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.

References

Ishikawa K.,et al.DNA Res. 4:307-313(1997).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).
Schmutz J.,et al.Nature 431:268-274(2004).
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