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

Phospholipase A2 Activator Protein Rabbit mAb

Catalog # AP76802

Product Information

Application	WB, IHC-P
Primary Accession	Q9Y263
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	87157

Additional Information

Gene ID	9373
Other Names	PLAA
Dilution	WB~~1:1000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	PLAA
Synonyms	PLAP
Function	Plays a role in protein ubiquitination, sorting and degradation through its association with VCP (PubMed:27753622). Involved in ubiquitin-mediated membrane proteins trafficking to late endosomes in an ESCRT-dependent manner, and hence plays a role in synaptic vesicle recycling (By similarity). May play a role in macroautophagy, regulating for instance the clearance of damaged lysosomes (PubMed:27753622). Plays a role in cerebellar Purkinje cell development (By similarity). Positively regulates cytosolic and calcium-independent phospholipase A2 activities in a tumor necrosis factor alpha (TNF)- or lipopolysaccharide (LPS)-dependent manner, and hence prostaglandin E2 biosynthesis (PubMed:18291623, PubMed:28007986).
Cellular Location	Nucleus. Cytoplasm. Synapse {ECO:0000250|UniProtKB:P27612}. Note=Recruited to damaged lysosomes decorated with K48-linked ubiquitin

chains

Background

Phospholipase A-2-activating protein (PLAA), also named PLAP, can interact with ubiquitin and is involved in the maintenance of ubiquitin levels. PLAA contains multiple consensus domains including WD repeats, PFU domain and PUL domain. Although the function of PLAA remains unclear, ubiquitin binding of PLAA might be the central role that connects ubiquitination and degradation in ERAD. Recent finding revealed that PLAA served as a novel nociveptive mediator after incision, and its expression level is regulated by miR-203.

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