

PLAA Rabbit pAb

PLAA Rabbit pAb
Catalog # AP52342

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9Y263
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87157
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Phospholipase A2 activator protein
Epitope Specificity	101-200/795
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Phospholipase A2 activator protein (PLAP), activates PLA2 (phospholipase A2 enzyme) and is an important mediator of eicosanoid generation. Also known as a pro-inflammatory agent, PLAP has been found in inflamed tissues and synovial fluid from patients with rheumatoid arthritis. As such, it is believed to play an important role in the regulation of inflammatory diseases. The formation of PLAP can be stimulated by IL-1 beta and TNF-alpha.

Additional Information

Gene ID	9373
Other Names	Phospholipase A-2-activating protein, PLA2P, PLAP, PLAA, PLAP
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
 Bechtel S.,et al.BMC Genomics 8:399-399(2007).
 Humphray S.J.,et al.Nature 429:369-374(2004).
 Beatty B.,et al.Genomics 62:529-532(1999).
 Totoki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.

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