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KD-Validated Anti-Phospholipase A2 activating protein Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1267

Specification

KD-Validated Anti-Phospholipase A2 activating protein Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q9Y263
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 87 kDa , observed, 75 kDa KDa**
Gene Name	**PLAA**
Aliases	**PLAA; Phospholipase A2 Activating Protein; PLA2P; PLAP; DOA1; Phospholipase A-2-Activating Protein; FLJ11281; FLJ12699; DOA1 Homolog (S. Cerevisiae); DOA1 Homolog; NDMSBA**
Immunogen	**A synthesized peptide derived from human PLAP**

KD-Validated Anti-Phospholipase A2 activating protein Rabbit Monoclonal Antibody - Additional Information

Gene ID	**9373**

Other Names
Phospholipase A-2-activating protein, PLA2P, PLAP, PLAA, PLAP

KD-Validated Anti-Phospholipase A2 activating protein Rabbit Monoclonal Antibody - 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-alpha)- or lipopolysaccharide (LPS)-dependent manner, and hence prostaglandin E2 biosynthesis (PubMed:18291623, PubMed:28007986).

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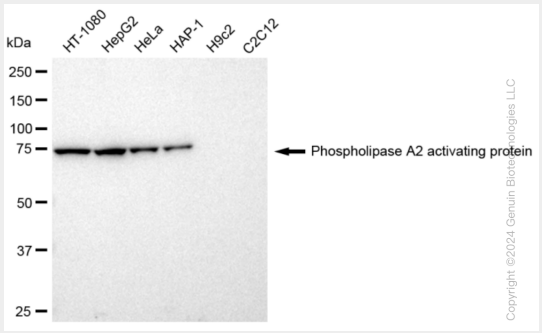
Cellular Location
Nucleus. Cytoplasm. Synapse {ECO:0000250|UniProtKB:P27612}. Note=Recruited to damaged lysosomes decorated with K48-linked ubiquitin chains

KD-Validated Anti-Phospholipase A2 activating protein Rabbit Monoclonal Antibody - Protocols

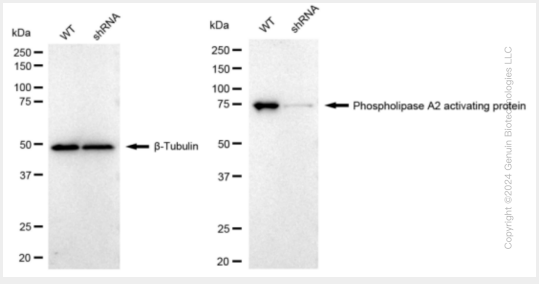
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Phospholipase A2 activating protein Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Phospholipase A2 activating protein antibody (Cat#AGI1267). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Phospholipase A2 activating protein antibody (Cat#AGI1267, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Phospholipase A2 activating protein antibody (Cat#AGI1267). Phospholipase A2 activating protein expression in wild type (WT) and phospholipase A2 activating protein shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Phospholipase A2 activating protein antibody (Cat#AGI1267, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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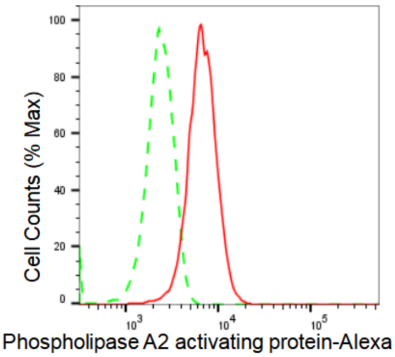
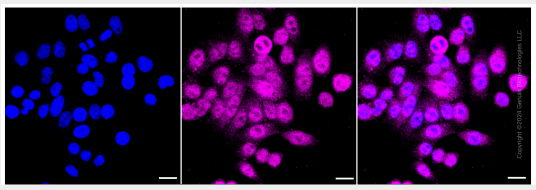


Flow cytometric analysis of Phospholipase A2 activating protein expression in HepG2 cells using Phospholipase A2 activating protein antibody (Cat#AGI1267, 1:2,000). Green, isotype control; red, Phospholipase A2 activating protein.



Immunocytochemical staining of HepG2 cells with Phospholipase A2 activating protein antibody (Cat#AGI1267, 1:1,000). Nuclei were stained blue with DAPI; Phospholipase A2 activating protein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.