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LYPLA2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57162

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	O95372
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24737
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LYPLA2
Epitope Specificity	1-100/231
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Belongs to the AB hydrolase superfamily. AB hydrolase 2 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Lysophospholipases are enzymes that act on biological membranes to regulate the multifunctional lysophospholipids. There are alternatively spliced transcript variants described for this gene but the full length nature is not known yet. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	11313
Other Names	Acyl-protein thioesterase 2, APT-2, 3.1.2.-, Lysophospholipase II, LPL-II, LysoPLA II, LYPLA2, APT2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	LYPLA2
Synonyms	APT2
Function	Acts as an acyl-protein thioesterase hydrolyzing fatty acids from S-acylated cysteine residues in proteins such as trimeric G alpha proteins, GSDMD, GAP43, ZDHHC6 or HRAS (PubMed:21152083, PubMed:28826475). Deacylates GAP43 (PubMed:21152083). Mediates depalmitoylation of ZDHHC6 (PubMed:28826475). Has lysophospholipase activity (PubMed:25301951). Hydrolyzes prostaglandin glycerol esters (PG-Gs) in the following order prostaglandin D2-glycerol ester (PGD2-G) > prostaglandin E2 glycerol ester (PGE2-G) > prostaglandin F2-alpha- glycerol ester (PGF2-alpha-G) (PubMed:25301951). Hydrolyzes 1- arachidonoylglycerol but not 2-arachidonoylglycerol or arachidonoylethanolamide (PubMed:25301951).
Cellular Location	Cytoplasm.
Tissue Location	Expressed in various breast cancer cell lines.