

Hrasls3 Rabbit pAb

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Catalog # AP94744

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8R3U1
Reactivity	Rat, Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17872
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from the middle of mouse Hrasls3
Epitope Specificity	8-100/162
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	Membrane; Single-pass membrane protein (Potential). Cytoplasm. Cytoplasm, perinuclear region.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	HRASLS3 specifically catalyzes the release of fatty acids from phospholipids in adipose tissue and also has a weak lysophospholipase activity. It is a tumor suppressor that may be involved in interferon-dependent cell death.

Additional Information

Gene ID	225845
Other Names	Phospholipase A and acyltransferase 3, Plaat3 {ECO:0000250 UniProtKB:P53816}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	Plaat3 {ECO:0000250 UniProtKB:P53816}
Function	Exhibits both phospholipase A1/2 and acyltransferase activities

(PubMed:[19047760](#), PubMed:[37919452](#)). Shows phospholipase A1 (PLA1) and A2 (PLA2), catalyzing the calcium-independent release of fatty acids from the sn-1 or sn-2 position of glycerophospholipids (PubMed:[18614531](#), PubMed:[19047760](#), PubMed:[19136964](#), PubMed:[22134920](#)). For most substrates, PLA1 activity is much higher than PLA2 activity (By similarity). Shows O-acyltransferase activity, catalyzing the transfer of a fatty acyl group from glycerophospholipid to the hydroxyl group of lysophospholipid (By similarity). Shows N-acyltransferase activity, catalyzing the calcium-independent transfer of a fatty acyl group at the sn-1 position of phosphatidylcholine (PC) and other glycerophospholipids to the primary amine of phosphatidylethanolamine (PE), forming N-acylphosphatidylethanolamine (NAPE), which serves as precursor for N-acyl ethanolamines (NAEs) (PubMed:[19047760](#)). Exhibits high N-acyltransferase activity and low phospholipase A1/2 activity (By similarity). Required for complete organelle rupture and degradation that occur during eye lens terminal differentiation, when fiber cells that compose the lens degrade all membrane-bound organelles in order to provide lens with transparency to allow the passage of light (PubMed:[33854238](#)). Organelle membrane degradation is probably catalyzed by the phospholipase activity (PubMed:[33854238](#)).

Cellular Location

Cell membrane {ECO:0000250 | UniProtKB:P53817}; Single-pass membrane protein. Cytoplasm. Cytoplasm, cytosol. Cytoplasm, perinuclear region. Peroxisome membrane; Single-pass membrane protein. Mitochondrion membrane; Single-pass membrane protein. Nucleus envelope. Lysosome membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein. Note=During eye lens differentiation, recruited from the cytosol to various organelles, including mitochondria, endoplasmic reticulum, nuclear envelope and lysosomes, immediately before organelle degradation. This translocation is triggered by organelle membrane damage and requires the C-terminal transmembrane domain

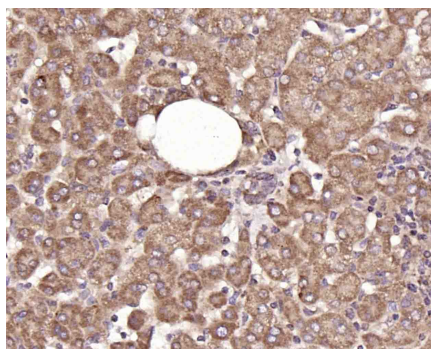
Tissue Location

Ubiquitously expressed in normal tissues but down-regulated in primary carcinomas or in many cell lines derived from tumors (PubMed:12055182). Highly expressed in white adipose tissue and in adipocytes (PubMed:18614531, PubMed:19136964). Expressed at lower levels in brown adipose tissue (PubMed:18614531, PubMed:19136964)

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (HrasIs3) Polyclonal Antibody, Unconjugated (b AP94744) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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