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Hrasls3 Rabbit pAb

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Catalog # AP94744

Specification

Hrasls3 Rabbit pAb - Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8R3U1
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18 KDa
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.
SIMILARITY	Belongs to the H-rev107 family.
SUBUNIT	Interacts with PPP2R1A; this interaction might decrease PP2A activity.
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.

Hrasls3 Rabbit pAb - Additional Information

Gene ID 225845

Other Names
Phospholipase A and acyltransferase 3, Plaat3 {ECO:0000250|UniProtKB:P53816}

Target/Specificity
Ubiquitously expressed in normal tissues but down-regulated in primary carcinomas or in many cell lines derived from tumors. Highly expressed in white adipose tissue and in adipocytes. Expressed at lower levels in brown adipose tissue.

Dilution

IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

Hrasls3 Rabbit pAb - 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-acylethanolamines (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)

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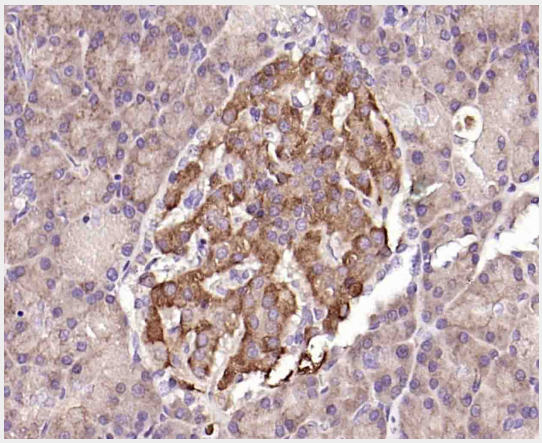
Hrasls3 Rabbit pAb - Protocols

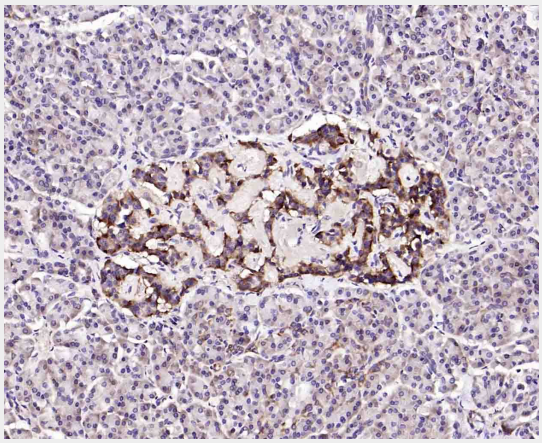
Provided below are standard protocols that you may find useful for product applications.

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

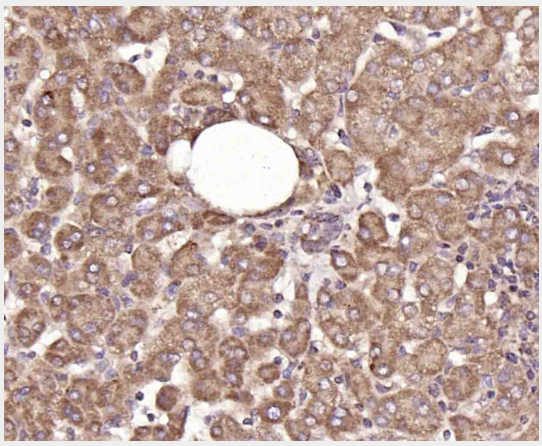
Hrasls3 Rabbit pAb - Images



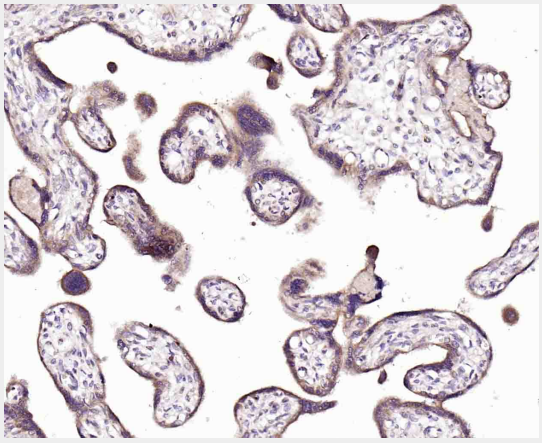
Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Hrasls3) Polyclonal Antibody, Unconjugated (b AP94744) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



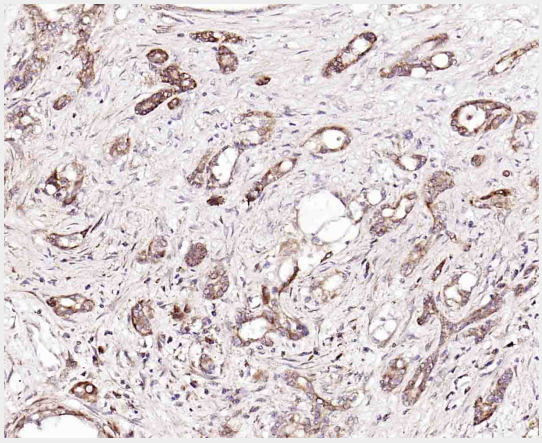
Paraformaldehyde-fixed, paraffin embedded (human pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Hrasls3) Polyclonal Antibody, Unconjugated (b AP94744) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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 (Hrasls3) Polyclonal Antibody, Unconjugated (b AP94744) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human placenta); 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 (Hrasls3) Polyclonal Antibody, Unconjugated (b AP94744) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human pancreatic cancer); 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 (Hrasls3) Polyclonal Antibody, Unconjugated (b AP94744) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Hrasls3 Rabbit pAb - Background

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