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HRASLS3 / HREV107-3 Antibody (N-Term)

Peptide-affinity purified goat antibody
Catalog # AF2708a

Specification

HRASLS3 / HREV107-3 Antibody (N-Term) - Product Information

Application	**IHC**
Primary Accession	P53816
Other Accession	NP_009000.2, 11145, 225845 (mouse), 24913 (rat)
Predicted	**Human, Mouse, Rat**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**17937**

HRASLS3 / HREV107-3 Antibody (N-Term) - Additional Information

Gene ID 11145

Other Names
HRAS-like suppressor 3, HRSL3, 3.1.1.32, 3.1.1.4, Adipose-specific phospholipase A2, AdPLA, Group XVI phospholipase A1/A2, H-rev 107 protein homolog, HRAS-like suppressor 1, HREV107-1, HREV107-3, Renal carcinoma antigen NY-REN-65, PLA2G16, HRASLS3, HREV107

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HRASLS3 / HREV107-3 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

HRASLS3 / HREV107-3 Antibody (N-Term) - Protein Information

Name PLAAT3 (HGNC:17825)

Function
Exhibits both phospholipase A1/2 and acyltransferase activities (PubMed:19047760, PubMed:19615464, PubMed:22605381, PubMed:22825852, PubMed:<a

href="http://www.uniprot.org/citations/26503625" target="_blank">26503625). Shows phospholipase A1 (PLA1) and A2 (PLA2) activity, catalyzing the calcium-independent release of fatty acids from the sn-1 or sn-2 position of glycerophospholipids (PubMed:19047760, PubMed:19615464, PubMed:22605381, PubMed:22825852, PubMed:22923616). For most substrates, PLA1 activity is much higher than PLA2 activity (PubMed:19615464). Shows O-acyltransferase activity,catalyzing the transfer of a fatty acyl group from glycerophospholipid to the hydroxyl group of lysophospholipid (PubMed:19615464). 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, PubMed:19615464, PubMed:22605381, PubMed:22825852). Exhibits high N-acyltransferase activity and low phospholipase A1/2 activity (PubMed:22825852). 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. Organelle membrane degradation is probably catalyzed by the phospholipase activity (By similarity).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P53817}; Single-pass membrane protein. Cytoplasm. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q8R3U1}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q8R3U1}. Peroxisome membrane {ECO:0000250|UniProtKB:Q8R3U1}; Single-pass membrane protein. Mitochondrion membrane {ECO:0000250|UniProtKB:Q8R3U1}; Single-pass membrane protein. Nucleus envelope {ECO:0000250|UniProtKB:Q8R3U1}. Lysosome membrane {ECO:0000250|UniProtKB:Q8R3U1}; Single-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8R3U1}; 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 {ECO:0000250|UniProtKB:Q8R3U1}

Tissue Location
Widely expressed. Low expression, if any, in hematopoietic cells and thymus. In testis, confined to round spermatids. Expressed in normal ovarian epithelial cells. Down- regulated in some ovarian carcinomas and testicular germ cell tumors Highly expressed in white adipose tissue (PubMed:19136964)

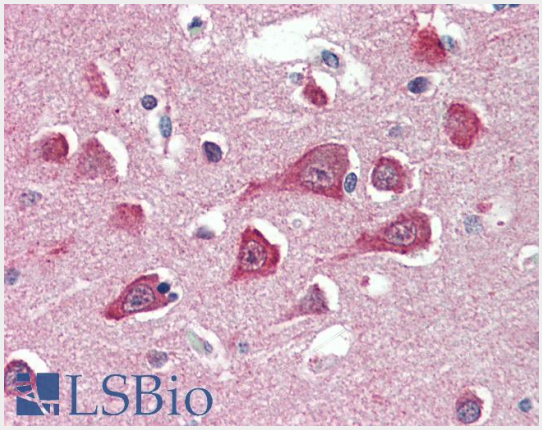
HRASLS3 / HREV107-3 Antibody (N-Term) - Protocols

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 / HREV107-3 Antibody (N-Term) - Images



EB08338 (5µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

HRASLS3 / HREV107-3 Antibody (N-Term) - Background

Reported variants represent identical protein:NP_009000.2 and NP_001121675.1).

HRASLS3 / HREV107-3 Antibody (N-Term) - References

H-REV107-1 stimulates growth in non-small cell lung carcinomas via the activation of mitogenic signaling. Nazarenko I, Kristiansen G, Fonfara S, Guenther R, Gieseler C, Kemmner W, Schafer R, Petersen I, Sers C. Am J Pathol. 2006 Oct;169(4):1427-39. PMID: 17003497