For Research Use Only

LASP1 Monoclonal antibody

Catalog Number:68080-1-Ig 1 Publications

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Basic Information

Catalog Number:
68080-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG18101

GenBank Accession Number:
BC012460

GeneID (NCBI):
3927

ENSEMBL Gene ID:
ENSG00000002834

UNIPROT ID:
Q14847

Full Name:
LIM and SH3 protein 1

Calculated MW:
30 kDa

Observed MW:
35-38 kDa

Purification Method:
Protein G purification

CloneNo.:
1G4B6

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:500-1:2000
IF 1:200-1:800

Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, HCT 116 cells, human peripheral blood platelets, PC-3 cells, HeLa cells

IHC : human liver cancer tissue, human breast cancer tissue

IF : A549 cells,

Background Information

LASP1(LIM and SH3 protein 1), also known as MLN50, is a 261 amino acid protein that localizes to both the cytoplasm and the cytoskeleton(PMID: 7589475). LASP1 consists of an N-terminal LIM-domain with two zinc finger motifs, followed by two central actin-binding nebulin repeats, flanked by a linker region and a C-terminal SH3 domain (PMID: 17177073, 9848085). LASP-1 interacts with F-Actin and plays an important role in the regulation of Actin-associated cytoskeletal organization. Agonist-dependent changes in LASP1 phosphorylation may regulate Actin-related ion transport activities in epithelial cells (PMID: 15465019,12571245). Overexpression of LASP-1 is associated with breast cancer, and plays a role in tumor transformation and metastasis (PMID: 17956604).

Notable Publications

Author	Pubmed ID	Journal	Application
Chong Yang	36670097	Cell Death Dis	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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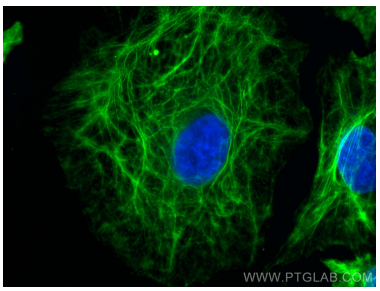
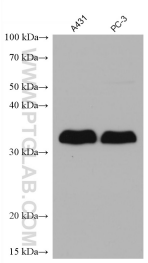
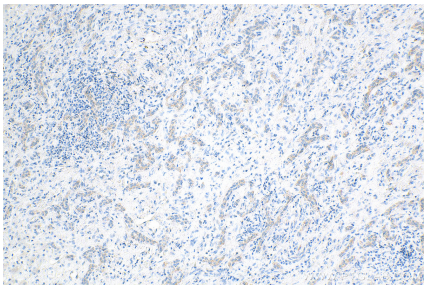
Selected Validation Data



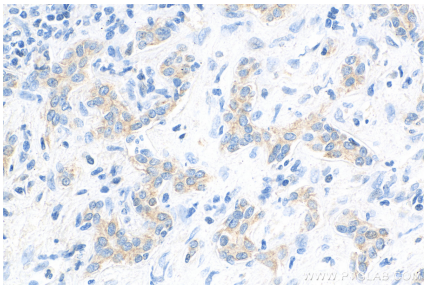
Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using LASP1 antibody (68080-1-Ig, Clone: 1G4B6) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



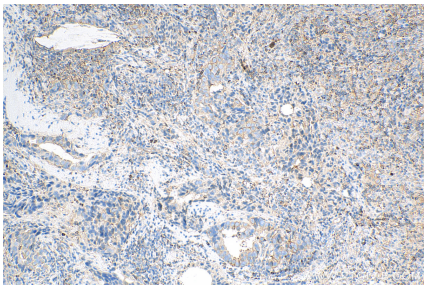
Various lysates were subjected to SDS PAGE followed by western blot with 68080-1-Ig (LASP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



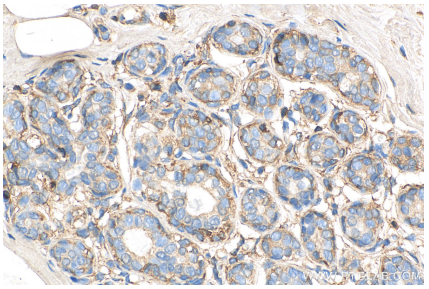
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68080-1-Ig (LASP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 68080-1-Ig (LASP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 68080-1-Ig (LASP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 68080-1-Ig (LASP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).