

For Research Use Only

# L1CAM Monoclonal antibody

Catalog Number: 67115-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 67115-1-Ig	<b>GenBank Accession Number:</b> BC126229	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop and 578 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3897	<b>CloneNo.:</b> 3H7B9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P32004	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF-P 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> L1 cell adhesion molecule	
<b>Immunogen Catalog Number:</b> AG17706	<b>Calculated MW:</b> 1257 aa, 140 kDa	
	<b>Observed MW:</b> 220 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b> <b>WB :</b> pig brain tissue, pig cerebellum tissue, Rabbit brain tissue, rat brain tissue, mouse brain tissue <b>IHC :</b> human colon cancer tissue, human brain tissue, human colon tissue, mouse brain tissue <b>IF-P :</b> mouse brain tissue,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> human, mouse, rat, pig, rabbit	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

L1CAM, also known as NCAM-L1 or CD171, is a cell adhesion molecule of the immunoglobulin superfamily. It is a 200-220 kDa transmembrane glycoprotein composed of six Ig-like domains and five fibronectin type III repeats followed by a transmembrane region and a highly conserved cytoplasmic tail (PMID: 3412448; 22796939). L1CAM is primarily expressed in the nervous system and is involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, cerebellar granule cell migration, neurite outgrowth on Schwann cells and interactions among epithelial cells of intestinal crypts (PMID: 3412448; 10767310). L1CAM is overexpressed in many human cancers and is often associated with bad prognosis (PMID: 27267927; 26111503).

## Notable Publications

Author	Pubmed ID	Journal	Application
Danyu Li	38898558	J Extracell Vesicles	WB
Xinli Jiang	38647743	J Neuroimmune Pharmacol	WB
Yudong Liu	38424563	Cell Commun Signal	WB,IF

## Storage

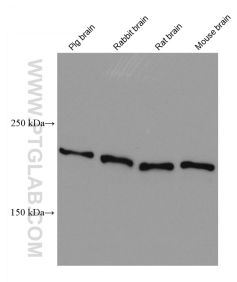
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

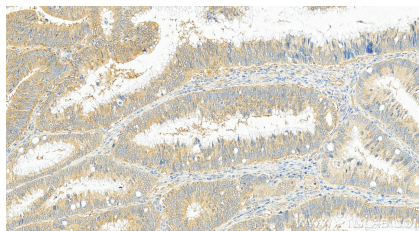
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

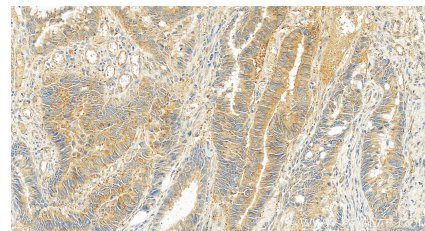
## Selected Validation Data



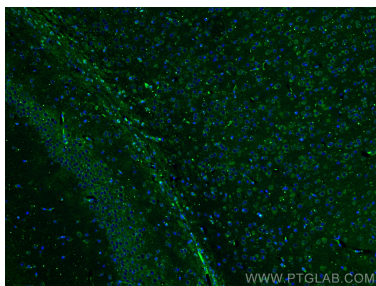
Various lysates were subjected to SDS PAGE followed by western blot with 67115-1-Ig (L1CAM antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



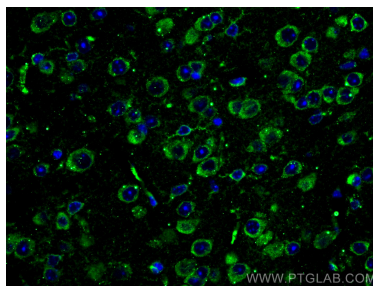
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67115-1-Ig (L1CAM antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



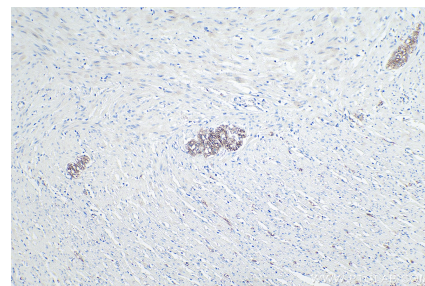
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67115-1-Ig (L1CAM antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using L1CAM antibody (67115-1-Ig, Clone: 3H7B9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using L1CAM antibody (67115-1-Ig, Clone: 3H7B9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 67115-1-Ig (L1CAM antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).