

For Research Use Only

L1CAM/CD171 Polyclonal antibody

Catalog Number: 20659-1-AP

5 Publications



Basic Information

Catalog Number:

20659-1-AP

Concentration:

3000 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000425

GeneID (NCBI):

3897

UNIPROT ID:

P32004

Full Name:

L1 cell adhesion molecule

Calculated MW:

140 kDa

Observed MW:

200-220 kDa, 80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse brain tissue, rat brain tissue

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). It has been reported that L1CAM can be proteolytically cleaved into a soluble fragment of 140 kDa and an intracellular fragment of 80-85 kDa (PMID: 30842511; 34380733). This antibody raised against 1206-1221aa of human L1CAM detects 200-220 kDa full-length L1CAM and 80-kDa cleaved fragment of L1CAM.

Notable Publications

Author	Pubmed ID	Journal	Application
Sunitha Kodidela	32481515	Diagnostics (Basel)	WB
Kuo Tong	31997427	Histopathology	IHC
Sandip Godse	37964023	Sci Rep	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

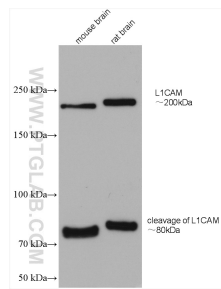
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20659-1-AP (L1CAM antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.