# L1CAM/CD171 Recombinant antibody

Catalog Number:86305-2-RR

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## Basic Information

**Catalog Number:**
86305-2-RR

**Concentration:**
1000 μg/ml

**Source:**
Rabbit

**Isotype:**
IgG

**Immunogen Catalog Number:**
EG3022

**GenBank Accession Number:**
N/A

**GeneID (NCBI):**
16728

**UNIPROT ID:**
P11627

**Full Name:**
L1 cell adhesion molecule

**Calculated MW:**
141 kDa

**Observed MW:**
210-250 kDa

**Purification Method:**
Protein A purification

**CloneNo.:**
250101C11

**Recommended Dilutions:**
WB: 1:5000-1:50000
IHC: 1:200-1:800
IF/ICC: 1:400-1:1600

## Applications

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

**Species Specificity:**
mouse, rat

***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 : PC-12 cells, mouse brain tissue

IHC : mouse kidney tissue,
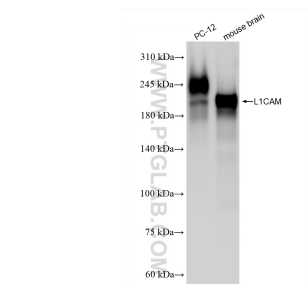
IF/ICC : Neuro-2a cells,

## 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).
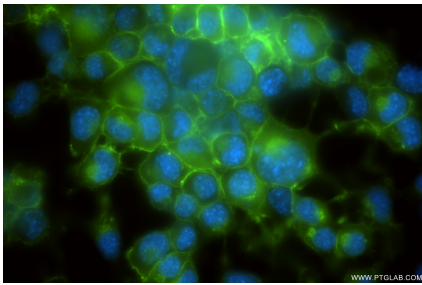
## Storage

**Storage:**
Store at -20℃. Stable for one year after shipment.
**Storage Buffer:**
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
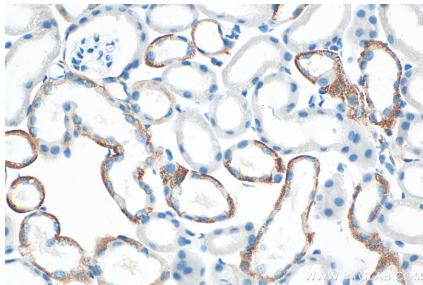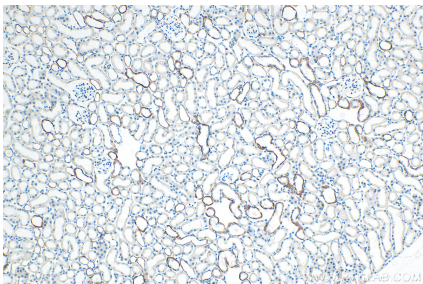Aliquoting is unnecessary for -20°C storage

Various lysates were subjected to SDS PAGE followed by western blot with 86305-2-RR (L1CAM/CD171 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed Neuro-2a cells using L1CAM/CD171 antibody (86305-2-RR, Clone: 250101C11 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 86305-2-RR (L1CAM/CD171 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 86305-2-RR (L1CAM/CD171 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).