



# NCAM-L1 Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-17660                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>                | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>                   | L1CAM                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human CD171/N-CAML1. AA range:1147-1196                                                                                                                                                                                                                                                                                                         |
| <b>Specificity</b>                 | NCAM-L1 Polyclonal Antibody detects endogenous levels of NCAM-L1 protein.                                                                                                                                                                                                                                                                                                                                           |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                               |
| <b>Dilution</b>                    | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.                                                                                                                                                                                                                                                        |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>                    | S10;HSAS;HYCX;MASA;MIC5;SPG1;CAML1;CD171;HSAS1;N-CAML1;NCAM-L1;N-CAM-L1;CD171/L1CAM;L1CAM;Neural cell adhesion molecule L1;CD antigen CD171                                                                                                                                                                                                                                                                         |
| <b>Observed Band</b>               | 180kD                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Calculated Molecular Weight</b> | 180kD                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Cell Pathway</b>                | Cell membrane ; Single-pass type I membrane protein . Cell projection, growth cone . Cell projection, axon . Cell projection, dendrite. Colocalized with SHTN1 in close apposition with actin filaments in filopodia and lamellipodia of axonal growth cones of hippocampal neurons (By similarity). In neurons, detected predominantly in axons and cell body, weak localization to dendrites (PubMed:20621658). . |
| <b>Tissue Specificity</b>          | Epithelium,Fetal brain,Liver,Pancreas,Plasma,                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Function</b>                    | disease:Defects in L1CAM are a cause of partial agenesis of the corpus callosum [MIM:304100]; a X-linked disorder.,disease:Defects in L1CAM are the cause of hydrocephalus due to stenosis of the aqueduct of Sylvius (HSAS) [MIM:307000]. Hydrocephalus is a condition in which abnormal accumulation of                                                                                                           |



cerebrospinal fluid in the brain causes increased intracranial pressure inside the skull. This is usually due to blockage of cerebrospinal fluid outflow in the brain ventricles or in the subarachnoid space at the base of the brain. In children is typically characterized by enlargement of the head, prominence of the forehead, brain atrophy, mental deterioration, and convulsions. In adults the syndrome includes incontinence, imbalance, and dementia. HSAS is characterized by mental retardation and enlarged brain ventricles. disease: Defects in L1CAM are the cause of mental retardation-aphasia-shuffl

#### Background

The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a conserved cytoplasmic domain. This cell adhesion molecule plays an important role in nervous system development, including neuronal migration and differentiation. Mutations in the gene cause X-linked neurological syndromes known as CRASH (corpus callosum hypoplasia, retardation, aphasia, spastic paraplegia and hydrocephalus). Alternative splicing of this gene results in multiple transcript variants, some of which include an alternate exon that is considered to be specific to neurons. [provided by RefSeq, May 2013],

#### matters needing attention

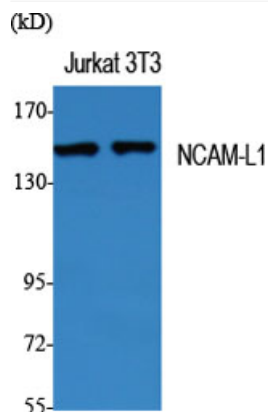
Avoid repeated freezing and thawing!

#### Usage suggestions

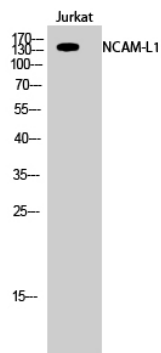
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



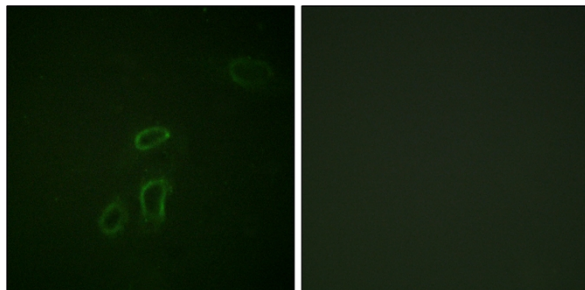
## Products Images



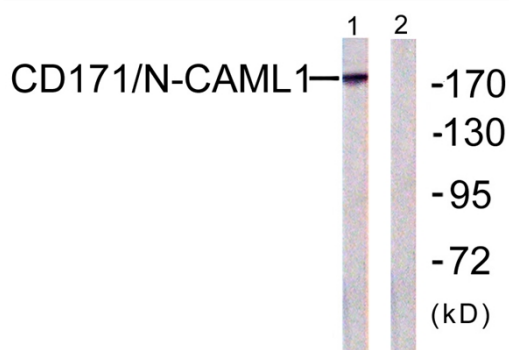
Western Blot analysis of various cells using NCAM-L1 Polyclonal Antibody



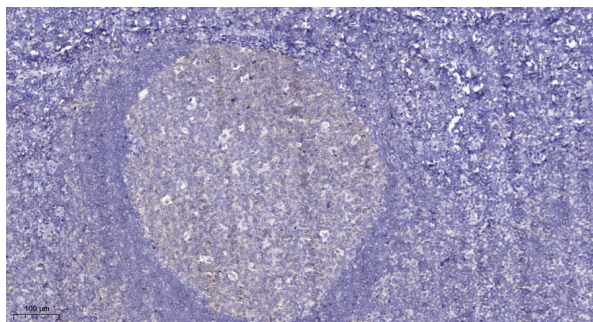
Western Blot analysis of Jurkat cells using NCAM-L1 Polyclonal Antibody



Immunofluorescence analysis of HepG2 cells, using CD171/N-CAML1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells, using CD171/N-CAML1 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4° overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45 min).