

Product Name: KD-Validated L1 Cell Adhesion Molecule Mouse Monoclonal Antibody
Catalog #: KVAb00701

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 140.0kDa

Antigen Information

Gene Name	L1CAM L1CAM; L1 Cell Adhesion Molecule; NCAM-L1; CAML1; Neural Cell Adhesion Molecule L1;
Alternative Names	CD171; MIC5; Antigen Identified By Monoclonal Antibody R1; N-CAM-L1; HSAS1; HSAS; MASA; SPG1; S10; CD171 Antigen; N-CAML1; HYCX
Gene ID	3897.0
SwissProt ID	P32004
Immunogen	Recombinant protein of human L1CAM

Background

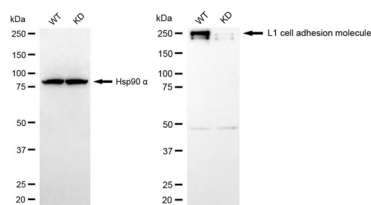
The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single

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]

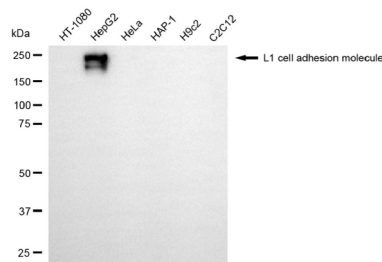
Research Area

Signal Transduction, Neuroscience

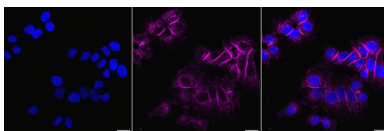
Image Data



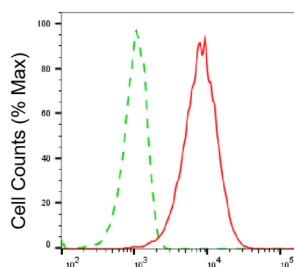
Western blotting analysis using L1 cell adhesion molecule antibody (KVA00701). L1 cell adhesion molecule expression in wild type (WT) and L1 cell adhesion molecule (L1CAM) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with L1 cell adhesion molecule antibody (KVA00701, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using L1 cell adhesion molecule antibody (KVA00701). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with L1 cell adhesion molecule antibody (KVA00701, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with L1 cell adhesion molecule antibody (KVA00701, 1:1,000). Nuclei were stained blue with DAPI; L1 cell adhesion molecule was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain: Medium. Scale bar, 20 µm.



L1 cell adhesion molecule-Alexa Fluor® 647

Flow cytometric analysis of L1 cell adhesion molecule expression in HepG2 cells using L1 cell adhesion molecule antibody (KVA00701, 1:2,000). Green, isotype control; red, L1 cell adhesion molecule.