OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA500729S

L1CAM Mouse Monoclonal Antibody [Clone ID: OTI2C7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2C7
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:50~100, FLOW 1:100, IP 2-4ug/mg
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human L1CAM (NP_000416) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.46 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	140.0 kDa
Gene Name:	L1 cell adhesion molecule
Database Link:	NP_000416 Entrez Gene 16728 MouseEntrez Gene 50687 RatEntrez Gene 3897 Human P32004

View online »

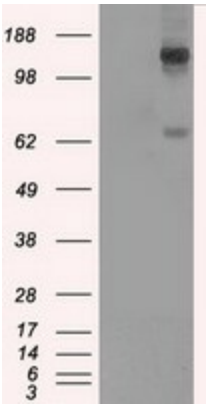
Background: The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a conserved cytoplasmic domain. This cell adhesion molecule plays an important role in nervous system development, including neuronal migration and differentiation. Mutations in the gene cause three X-linked neurological syndromes known by the acronym CRASH (corpus callosum hypoplasia, retardation, aphasia, spastic paraplegia and hydrocephalus). Alternative splicing of a neuron-specific exon is thought to be functionally relevant.

Synonyms: CAML1; CD171; HSAS; HSAS1; MASA; MIC5; N-CAM-L1; N-CAML1; NCAM-L1; S10; SPG1

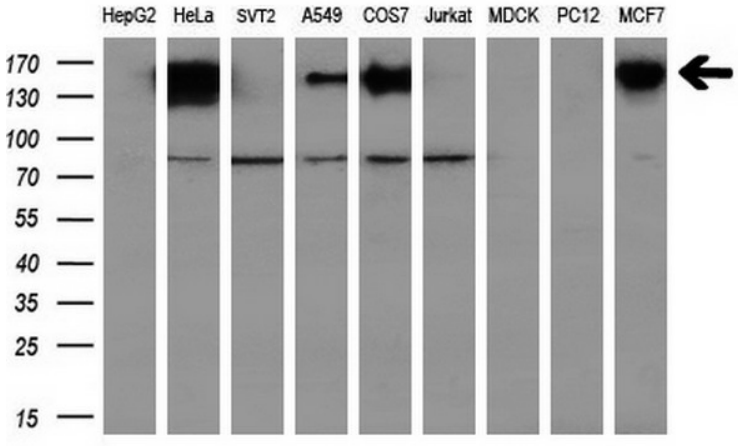
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Axon guidance, Cell adhesion molecules (CAMs)

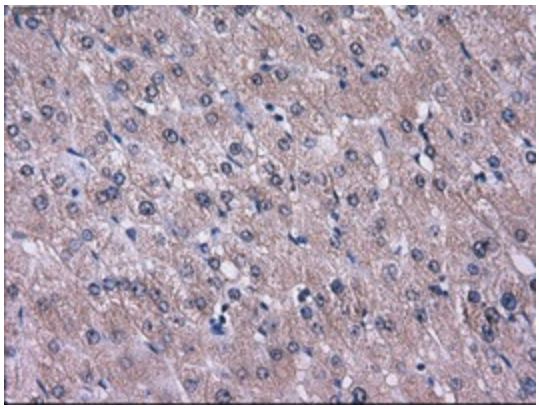
Product images:



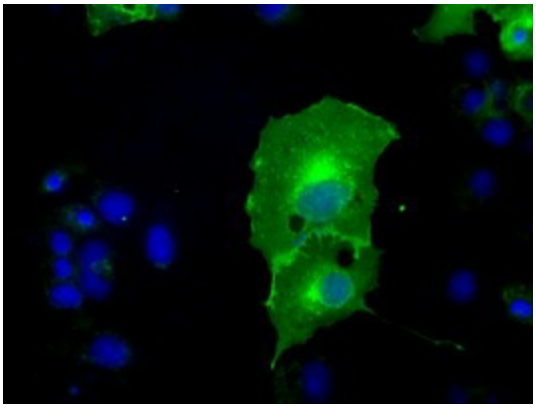
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY L1CAM ([RC211601], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-L1CAM. Positive lysates [LY400150] (100ug) and [LC400150] (20ug) can be purchased separately from OriGene.



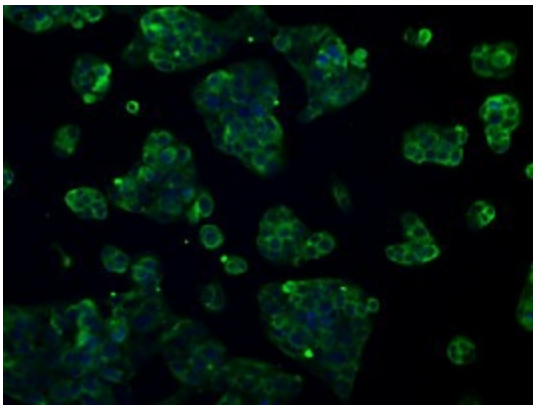
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-L1CAM monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



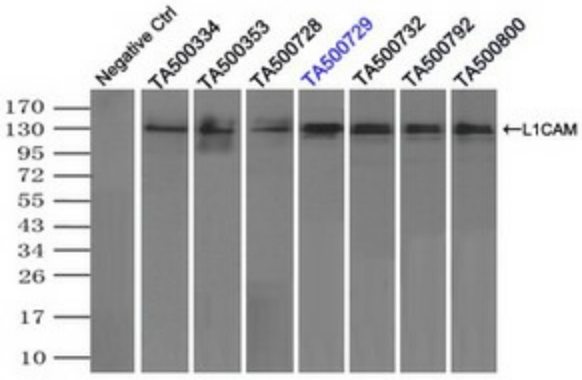
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-L1CAM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500729])



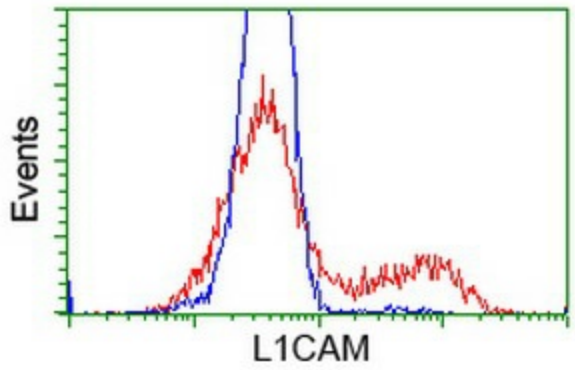
Anti-L1CAM mouse monoclonal antibody ([TA500729]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY L1CAM ([RC211601]).



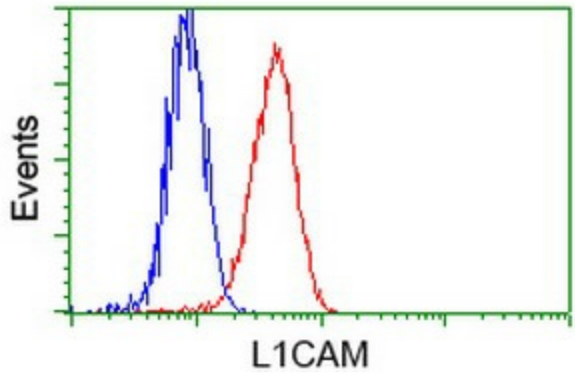
Immunofluorescent staining of HeLa cells using anti-L1CAM mouse monoclonal antibody ([TA500729]).



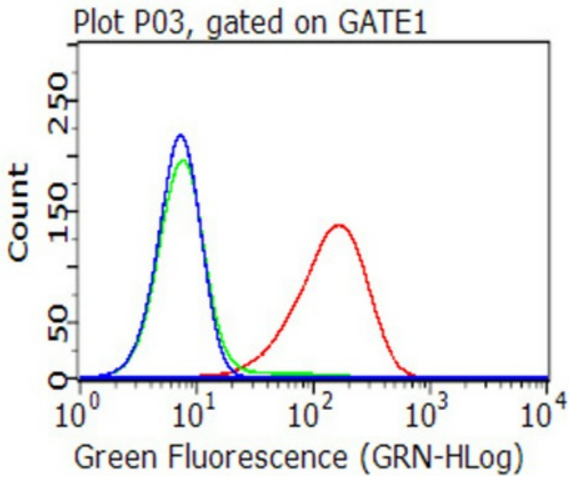
Immunoprecipitation of L1CAM by using TrueMab monoclonal anti-L1CAM antibody (Negative control: IP without adding anti-L1CAM antibody). For each experiment, 500ul of DDK tagged L1CAM overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of ant-L1CAM antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immuno-precipitated products were analyzed with rabbit anti-DDK polyclonal antibody.



HEK293T cells transfected with either [RC211601] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-L1CAM antibody ([TA500729]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Hela cells, using anti-L1CAM antibody ([TA500729]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric analysis of living A375 cells, using anti-L1CAM antibody ([TA500729], Red), compared to an isotype control (green), and a PBS control (blue) (1:100).