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# Product datasheet for CF501464

## L1CAM Mouse Monoclonal Antibody [Clone ID: OTI2B11]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OTI2B11 |
| **Applications:** | FC, IF, WB |
| **Recommended Dilution:** | WB 1:2000, IF 1:100, FLOW 1:100 |
| **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:** | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| **Reconstitution Method:** | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| **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:** | 137.8 kDa |
| **Gene Name:** | L1 cell adhesion molecule |
| **Database Link:** | NP_000416<br>Entrez Gene 16728 MouseEntrez Gene 50687 RatEntrez Gene 3897 Human<br>P32004 |

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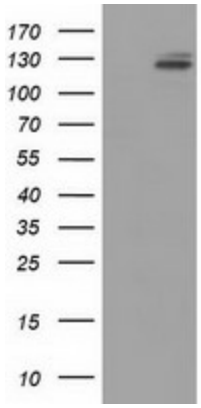
**Background:** The protein encoded by this gene is an axonal glycoprotein belonging to the immunoglobulin supergene family. The ectodomain, consisting of several immunoglobulin-like domains and fibronectin-like repeats (type III), is linked via a single transmembrane sequence to a conserved cytoplasmic 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. [provided by RefSeq]

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

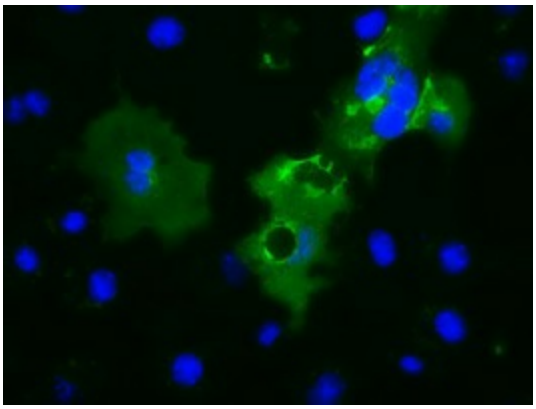
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

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

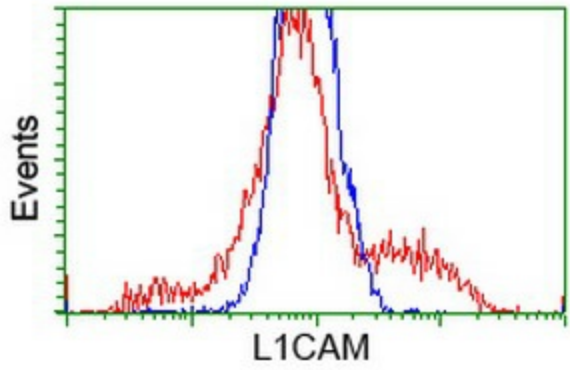
## Product images:



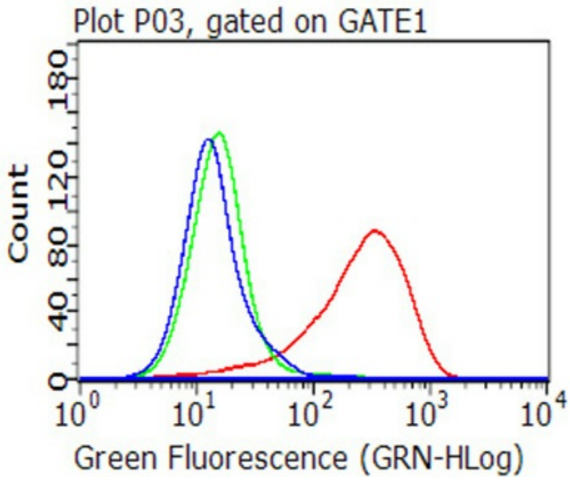

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY L1CAM ([RC211601], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-L1CAM. Positive lysates [LY400150] (100ug) and [LC400150]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



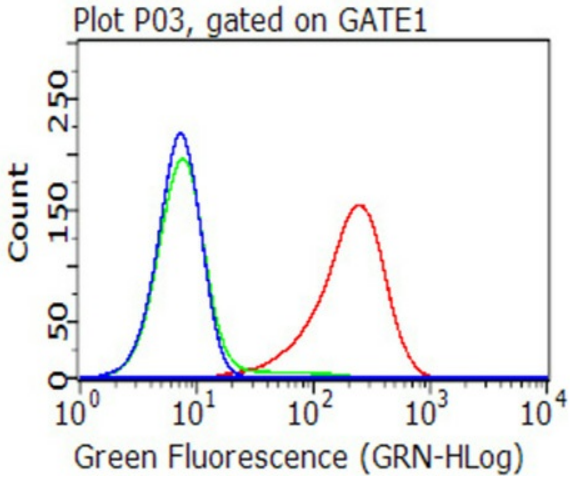
Anti-L1CAM mouse monoclonal antibody ([TA501464]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY L1CAM ([RC211601]).




HEK293T cells transfected with either [RC211601] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-L1CAM antibody ([TA501464]), and then analyzed by flow cytometry.




Flow cytometric analysis of living Hela cells, using anti-L1CAM antibody ([TA501464], Red), compared to an isotype control (green), and a PBS control (blue) (1:100).




Flow cytometric analysis of living A375 cells, using anti-L1CAM antibody ([TA501464], Red), compared to an isotype control (green), and a PBS control (blue) (1:100).