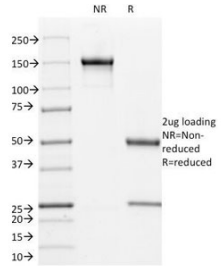
# L1CAM Antibody UJ127 / Mouse Monoclonal [clone UJ127] (V2182)

| Catalog No. | Formulation | Size |
|---|---|---|
| V2182-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2182-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2182SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

Citations (7)

**Bulk quote request**

| | |
|---|---|
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | UJ127 |
| **Purity** | Protein G affinity chromatography |
| **Buffer** | 1X PBS, pH 7.4 |
| **UniProt** | P32004 |
| **Gene ID** | 3897 |
| **Localization** | Cell surface |
| **Applications** | ELISA (order BSA/sodium azide-free format for coating) |
| **Limitations** | This L1CAM Antibody UJ127 is available for research use only. |




L1CAM Antibody UJ127 Purity and Integrity SDS-PAGE. SDS-PAGE analysis of purified, BSA-free L1CAM Antibody UJ127 under non-reducing (NR) and reducing (R) conditions with 2 ug of antibody loaded per lane. The observed banding pattern confirms the integrity and purity of the purified L1CAM Antibody UJ127.

## Description

L1CAM antibody UJ127 is a monoclonal antibody that targets L1 cell adhesion molecule, a neural cell adhesion protein belonging to the immunoglobulin superfamily. L1CAM is essential for neuronal development, guiding axon growth, synaptic plasticity, and cell migration. It also plays roles in cancer biology, where its expression is associated with tumor progression and metastasis. NSJ Bioreagents provides L1CAM antibody clone UJ127 as a versatile reagent for neuroscience, developmental biology, and oncology research.

In the nervous system, L1CAM antibody clone UJ127 has been extensively used to investigate neuronal adhesion, axon guidance, and myelination. L1CAM is expressed on developing neurons and glial cells, where it promotes interactions between axons and surrounding structures. This antibody highlights axonal tracts and cell membranes in neural tissue, making it valuable for mapping neuronal connectivity and studying developmental disorders of the brain and spinal cord.

Beyond neurobiology, L1CAM antibody UJ127 has significant applications in cancer research. L1CAM expression is elevated in various carcinomas, including ovarian, colorectal, and pancreatic cancers, where it contributes to tumor cell invasion and dissemination. Researchers employ this antibody to explore the mechanisms by which L1CAM enhances epithelial to mesenchymal transition and promotes metastatic potential. Its detection has been correlated with poor prognosis in several tumor types, making it a biomarker of both scientific and clinical interest.

In developmental biology, L1CAM antibody clone UJ127 has been used to study genetic disorders such as L1 syndrome, which is caused by mutations in the L1CAM gene. This syndrome manifests with neurological defects including hydrocephalus and agenesis of the corpus callosum. Detecting L1CAM expression patterns with clone UJ127 supports research into the molecular basis of these developmental abnormalities.

The antibody is validated for multiple applications and consistently provides strong staining of neural tissues and tumor samples. It has a broad publication history that underscores its utility in diverse biological systems. Alternate names include L1 antibody, neural cell adhesion molecule L1 antibody, and CD171 antibody.

Also known as CD171, NCAM-L1 and Neural Cell Adhesion Molecule L1, L1CAM is a cell adhesion protein involved in neuronal migration, axon development and nervous system function; additional target information is available on our L1CAM Antibody page.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the L1CAM Antibody UJ127 to be titered up or down for optimal performance.

## Immunogen

A homogenous suspension of 16 week human fetal brain was used as the immunogen for this L1CAM antibody.

## Storage

Store the L1CAM antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (1)

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