abcam

## ab95694

# PE Anti-L1CAM antibody [5G3]

Anti-L1CAM antibody [5G3] conjugated to PE - suitable for flow cytometry, and reacts with human samples. Clone [5G3] is a mouse monoclonal antibody cited in 4 publications.

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## Key facts

| | |
|---|---|
| **Isotype** | IgG2a |
| **Host species** | Mouse |
| **Conjugation** | PE |
| **Excitation/Emission** | Ex: 480;565nm, Em: 578nm |
| **Storage buffer** | pH: 7.2 Preservative: 0.09% Sodium azide Constituents: BSA, PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Cell preparation containing L1CAM protein. The exact immunogen used to generate this antibody is proprietary information. Database link P32004 |
| **Clone number** | 5G3 |
| **Purification technique** | Affinity purification Protein G |
| **Epitope** | Epitope recognised by ab95694 is in amino terminal Ig like domain. |
| **Concentration** | 0.05 mg/mL The concentration of this product may be batch-dependent Batch concentration finder → |

## Reactivity data

## Flow Cyt

**Tested**

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 5 µL for $10^6$ Cells |
| **Notes** | ab91363 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody. |

## Target data

See full target information L1CAM

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| **Function** | Neural cell adhesion molecule involved in the dynamics of cell adhesion and in the generation of transmembrane signals at tyrosine kinase receptors. During brain development, critical in multiple processes, including neuronal migration, axonal growth and fasciculation, and synaptogenesis. In the mature brain, plays a role in the dynamics of neuronal structure and function, including synaptic plasticity. |

## Storage

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|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |

## Notes

ab95694 can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL.

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

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| **Activity summary** | L1CAM also known as neural cell adhesion molecule L1 is a transmembrane protein with a molecular weight of approximately 200-220 kDa. The L1CAM protein belongs to the immunoglobulin superfamily and is heavily glycosylated. It plays a significant role in cell adhesion processes within the nervous system. L1CAM is expressed in a variety of tissues including the brain kidney and peripheral nerves and is notably present in neuronal cells where it engages in cell-cell interactions. Researchers frequently use L1CAM IHC ELISA methods and specific fluorescent markers like Alexa Fluor 568 to study its expression patterns and localization. |

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| **Biological function summary** | L1CAM facilitates neuronal migration axonal growth and synaptic plasticity. This protein participates in the formation and maintenance of neural networks. It interacts with other cell adhesion molecules and components of the extracellular matrix. L1CAM acts as an important modulator within neuronal signaling complexes which impacts the development and regeneration of the nervous system. Insights into its structural and cell interaction properties have made it a focus for understanding nervous system functions. |
| **Pathways** | L1CAM participates extensively in the MAPK and PI3K/AKT pathways. These pathways contribute to cellular growth survival and programmed cell death. The protein interacts with other molecules such as integrins and FGFRs to propagate signaling cascades important for cellular response mechanisms. These connections help modulate cytoskeletal dynamics influencing cellular adhesion and motility needed during brain development and response to injury. |
| **Associated diseases and disorders** | L1CAM has been associated with hydrocephalus and some cancers. Mutations in the L1CAM gene can lead to L1 syndrome which includes a spectrum of neurological disorders particularly hydrocephalus. In cancer overexpression or altered regulation of L1CAM may correlate with tumor aggressiveness and metastatic potential. L1CAM's association with integrin and cadherin proteins underlines its relevance in pathological states and highlights a potential target for therapeutic interventions. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

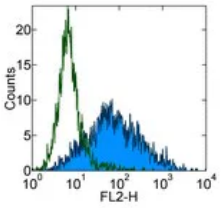
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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## 1 product image




### Flow Cytometry - PE Anti-L1CAM antibody [5G3] (ab95694)

L1CAM Flow Cytometry staining using mouse Anti-L1CAM antibody

Staining of the Panc-1 cell line with Mouse IgG2a kappa Isotype Control PE (open histogram) or ab95694 (filled histogram). Total viable cells were used for analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.