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Product datasheet for AM50136PU-S

L1CAM Mouse Monoclonal Antibody [Clone ID: SPM275]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SPM275
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	**ELISA:** Use BSA free Antibody for coating. **Flow Cytometry:** 0.5-1 µg/million cells. **Immunofluorescence:** 1-2 µg/ml. **Western Blotting:** 0.5-1 µg/ml. **Immunoprecipitation:** 1-2 µg/500 µg protein lysate. **Immunohistochemistry on Frozen Sections:** 1-2 µg/ml for 30 minutes at RT. ***Positive Control***: Neuroblastomas or Schwannomas.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Homogenous suspension of 16 week human fetal brain.
Specificity:	Recognizes a cell surface protein of 220-240kDa, identified as L1 Cell Adhesion Molecule. This Monoclonal Antibody is useful in the identification of primitive neuroectodermal tumors. It binds to tumors of neuroectodermal and glial origin e.g. neuroblastoma and Schwannomas. It does not bind to pediatric or adult brain. ***Cellular Localization***: Cell surface.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.

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Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	220-240 kDa
Gene Name:	L1 cell adhesion molecule
Database Link:	Entrez Gene 3897 Human P32004
Background:	Families of adhesion molecules which share common carbohydrate domains do exist, despite the structural and functional diversity of these glycoproteins. These include the Ca2+-independent neural adhesion molecules: N-CAM, myelin associated glycoprotein (MAG) and L1. L1 is involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, cerebellar granule cell migration, neurite outgrowth on Schwann cells and interactions among epithelial cells of intestinal crypts. The L1CAM gene, which is located in Xq28, is involved in three distinct conditions: 1) HSAS (hydrocephalus-stenosis of the aqueduct of Sylvius); 2) MASA (mental retardation, aphasia, shuffling gait, adductus thumbs); and 3) SPG1 (spastic paraplegia). The L1, neural cell adhesion molecule (L1CAM) also plays an important role in axon growth, fasciculation, neural migration and in mediating neuronal differentiation. Expression of L1 protein is restricted to tissues arising from neuroectoderm.
Synonyms:	N-CAM L1, CAML1, MIC5