

Mouse Anti-Human Cell Adhesion Molecule With Homology to L1CAM Monoclonal Antibody

Cat. No. CAB11511MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Cell Adhesion Molecule With Homology to L1CAM
Species	Human
Source	Mouse
Antigen Description	Neural cell adhesion molecule L1-like protein, also known as Cell adhesion molecule with homology to L1CAM, Close homolog of L1, Chl1-like protein, Chl1 and Call, is a single-pass type I membrane protein which belongs to the immunoglobulin superfamily and L1 / neurofascin / NgCAM family. CHL1 / CALL is expressed in the brain, in the cerebellum and in the spinal cord. It is detected in the retina and the optic nerve. It is also expressed in neurons and glial cells in the central nervous system and by schwann cells in the peripheral nervous system. CHL1 / CALL is an extracellular matrix and cell adhesion protein that plays a role in nervous system development and in synaptic plasticity. Both soluble and membranous forms promote neurite outgrowth of cerebellar and hippocampal neurons and suppress neuronal cell death. CHL1 / CALL plays a role in neuronal positioning of pyramidal neurons and in regulation of both the number of interneurons and the efficacy of GABAergic synapses. CHL1 / CALL may play a role in regulating cell migration in nerve regeneration and cortical development.
Specificity	Human CHL-1. No cross-reactivity with human cell lysate (293 cell line) in WB and

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	ELISA.
Immunogen	Recombinant Human CHL-1 Protein
Isotype	Mouse IgG1
Clone	7F7F5
Applications	ELISA
Dilution	This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect CHL1-His. The detection limit for CHL1-His is approximately 0.078 ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human CHL-1. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CHL1 cell adhesion molecule with homology to L1CAM (close homolog of L1) [Homo sapiens]
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Official Symbol	CHL1
Synonyms	CHL1; cell adhesion molecule with homology to L1CAM (close homolog of L1); cell adhesion molecule with homology to L1CAM (close homologue of L1); neural cell adhesion molecule L1-like protein; CALL; cell adhesion molecule L1 like; FLJ44930; L1CAM2; MGC132578; neural cell adhesion molecule; close homolog of L1; L1 cell adhesion molecule 2; FLJ30674; DKFZp547L174;
Gene ID	10752
mRNA Refseq	NM_001253387
Protein Refseq	NP_001240316
MIM	607416
UniProt ID	O00533
Chromosome Location	3p26
Pathway	Axon guidance, organism-specific biosystem; CHL1 interactions, organism-specific biosystem; Developmental Biology, organism-specific biosystem; L1CAM interactions, organism-specific biosystem;