

Anti-NCAM-L1 [H2 scFv] Standard Size Ab00744-2.0

This full-length, chimeric mouse antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, Lambda

Clone Number: H2 scFv

Alternative Name(s) of Target: CD171; L1; Neural cell adhesion molecule L1; N-CAM-L1; L1

UniProt Accession Number of Target Protein: P11627

Published Application(s): Activate, WB, ELISA, IF

Published Species Reactivity: Mouse

Immunogen: single-chain variable fragment antibodies against mouse L1 from a human synthetic phage display library.

Specificity: This scFv binds specifically to the fibronectin type III repeats 1–2 of mouse L1 with a KD of around 2µM (determined by ELISA). It does not cross-react with human L1 in ELISAs, Western blots or immunofluorescence staining of cultured neurons. L1 plays important roles in cell adhesion, neuronal migration, neurite outgrowth, fasciculation and pathfinding, neuronal survival, and synaptic plasticity. L1 is not recongised under reducing conditions. L1 is a membrane glycoprotein of the immunoglobulin superfamily. Its interacts with adhesion molecules and proteins of the ECM. L1 also is involved in the migration of cerebellar granule cells, enhancing neuronal survival and memory.

Application Notes: This scFv can stimulate neurite outgrowth from cerebellar dorsal, rootganglion and motor neurons and also be used to enhance survival of cerevellar neurons by facilitating the clustering of L1. H2 can also be used for ELISA, WB and IF studies.

Antibody First Published in: Dong et al. Single chain Fv antibodies against neural cell adhesion molecule L1 trigger L1 functions in cultured neurons. Mol Cell Neurosci. 2003 Feb;22(2):234-47. [PMID:12676533](#)

Note on publication: Describes the generation and function of scFvs against mouse L1 protein.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.