



KO599

For research use only

Anti Mouse Sema4b Monoclonal Antibody

Clone No. TK-2

Code No. KO599
Target Sema4b
Category Neuroscience
Gene ID 20352
Primary Source MGI:107559
Synonyms SemC; Semac; KIAA1745; mKIAA1745

Type Monoclonal Antibody
Immunogen recombinant protein of mouse Sema4B extracellular domain

Raised in Rat

Myeloma P3U1

Clone number TK-2

Purification KAPTIV-M (Columns for Affinity Purification of IgM, Maker: Tecnogen S.p.A.)

Source Serum-free medium

Isotype IgGM

Cross Reactivity Mouse

Label Unlabeled

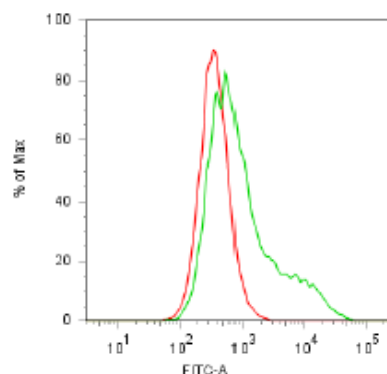
Concentration 0.25 mg/mL

Contents (Volume) 25 µg (100 µL/vial)

Buffer PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]

Storage Store at -20°C long term, store at 4°C short term. Avoid repeated freeze-thaw cycles.

Application ELISA, IP, FCM



[FCM] COS cell expressing mouse Sema4b

The data is provided from Research Institute for Microbial Diseases, Osaka Univ., Japan.

ELISA	WB	IHC	ICC
1.0	Not tested	Not tested	Not tested
IP	FCM	IF	Neutralization
5.0	0.05	Not tested	Not tested

(µg/mL)

Reference

- "Prediction of the coding sequences of mouse homologues of KIAA gene: IV. The complete nucleotide sequences of 500 mouse KIAA homologous cDNAs identified by screening of terminal sequences of cDNA clones randomly sampled from size-fractionated libraries." Okazaki N., et al. DNA Res. 11:205-218(2004) [PubMed: 15368895] [Abstract] Tissue: Pancreatic islet.
- "Murine semaphorin D/collapsin is a member of a diverse gene family and creates domains inhibitory for axonal extension." Pueschel A.W., et al. Neuron 14:941-948(1995) [PubMed: 7748561] [Abstract] Cited for: NUCLEOTIDE SEQUENCE [MRNA] OF 42-823. Strain: NMRI. Tissue: Brain.
- "A PDZ protein regulates the distribution of the transmembrane semaphorin, M-SemF." Wang L.-H., et al. J. Biol. Chem. 274:14137-14146(1999) [PubMed: 10318831] [Abstract]

UniPlot Summary

Function// Inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons.

Subunit structure// Interacts with GIPC PDZ domain.

Subcellular location// Membrane; Single-pass type I membrane protein.

Developmental stage// Expressed from day 10 in the embryo. Low levels found between days 10-12. Expression peaks on day 13 with moderate levels from then until birth.

Sequence similarities// Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 PSI domain. Contains 1 Sema domain.

Manufactured by Trans Genic Inc.



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