abcam

Product datasheet

Recombinant Mouse SEMA4A protein (Fc Chimera) ab214826

Description

Product name Recombinant Mouse SEMA4A protein (Fc Chimera)

Purity >= 98 % SDS-PAGE.

Endotoxin level < 0.060 Eu/µg
Expression system CHO cells

Accession Q62178

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Mouse

Sequence MALPSLGQDSWSLLRVFFFQLFLLPSLPPASGTGGQGPM

PRVKYHAGDGH

RALSFFQQKGLRDFDTLLLSDDGNTLYVGAREAVLALNIQ

NPGIPRLKNM

IPWPASERKKTECAFKKKSNETQCFNFIRVLVSYNATHLYA

CGTFAFSPA

CTFIELQDSLLLPILIDKVMDGKGQSPFDPVHKHTAVLVDG

MLYSGTMNN

FLGSEPILMRTLGSQPVLKTDIFLRWLHADASFVAAIPSTQ

VVYFFFEET

ASEFDFFEELYISRVAQVCKNDVGGEKLLQKKWTTFLKA

QLLCAQPGQLP

FNIIRHAVLLPADSPSVSRIYAVFTSQWQVGGTRSSAVCAF

SLTDIERVF

KGKYKELNKETSRWTTYRGSEVSPRPGSCSMGPSSDKA

LTFMKDHFLMDE

HVVGTPLLVKSGVEYTRLAVESARGLDGSSHVVMYLGTS

TGSLHKAVVPQ

DSSAYLVEEIQLSPDSEPVRNLQLAPAQGAVFAGFSGGW

RVPRANCSVY

ESCVDCVLARDPHCAWDPESRLCSLLSGSTKPWKQDM

ERGNPEWVCTRGP

MARSPRRQSPPQLIKEVLTVPNSILELPCPHLSALASYHW

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Amino acids 1 to 676

Additional sequence information Fused to the N-terminus of the Fc region of Human IgG1.

Specifications

Our Abpromise quarantee covers the use of ab214826 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at -20°C long term. Avoid freeze / thaw cycle.

Constituent: 100% PBS

Reconstitution Reconstitute at 100 µg/mL in sterile PBS. Working aliquots are stable for up to 3 months when

stored at -20°C.

General Info

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

axons.

Involvement in diseaseDefects in SEMA4A are the cause of retinitis pigmentosa type 35 (RP35) [MIM:610282]. RP

leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral

visual field and eventually central vision as well.

Defects in SEMA4A are the cause of cone-rod dystrophy type 10 (CORD10) [MIM:610283]. CORDs are inherited retinal dystrophies belonging to the group of pigmentary retinopathies.

CORDs are characterized by retinal pigment deposits visible on fundus examination,

predominantly in the macular region, and initial loss of cone photoreceptors followed by rod degeneration. This leads to decreased visual acuity and sensitivity in the central visual field, followed by loss of peripheral vision. Severe loss of vision occurs earlier than in retinitis

pigmentosa.

Sequence similarities Belongs to the semaphorin family.

Contains 1 lg-like C2-type (immunoglobulin-like) domain.

Contains 1 PSI domain. Contains 1 Sema domain.

Cellular localization Membrane.

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