

Recombinant Mouse OBCAM/OPCML Protein (aa 5-313, His Tag)



Catalog Number:PKSM040373

Note: Centrifuge before opening to ensure complete recovery of vial contents.

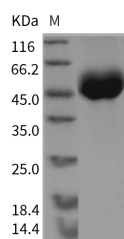
Description

Synonyms	2900075O15Rik;3732419F12;AI844366;B930023M13Rik;C230027C17;Gm181;Obcam;B-CAM;Gplu;Lu
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Ala5-Val313
Accession	NP_808574.2
Calculated Molecular Weight	32.7 kDa
Observed molecular weight	44-55 kDa
Tag	C-His
Bioactivity	Immobilized mouse OPCmL-His at 10µg/mL (100µL/well) can bind human LSAMP-Fc. The EC50 of human LSAMP-Fc is 0.04-0.1 µg/mL.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Opioid-binding Cell Adhesion Molecule (OBCAM), also known as OPCML, is a GPI-anchored cell adhesion molecule in the plasma membrane. This neuron-specific protein, consists of three immunoglobulin (Ig)-like domains anchored to the membrane through a glycosylphosphatidylinositol (GPI)-tail. OPCML also belongs to the member of the IgLON family, a subgroup of the immunoglobulin superfamily, consisting of three members, LAMP, OBCAM, and Neurotrimin. These molecules interact homophilically and heterophilically within the family, and OBCAM acts only as heterodimers with

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LAMP or Neurotrimin and possibly inhibits neurite outgrowth from cerebellar granule cells. OBCAM has been presumed to play a role as a cell adhesion/recognition molecule. Furthermore, the OPCML protein defects may play an important role in the carcinogenesis of cervical or ovarian cancers, and this gene is regarded as a candidate TSG (tumor suppressor gene).

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