

HUMAN CMTM6 FULL LENGTH PROTEIN

Cat.#: 11039

Product Name: Human CMTM6 Full Length Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CKLFSF6; PRO2219

Target: CMTM6 (CKLF like MARVEL transmembrane domain containing 6, chemokine-like factor superfamily 6)

UNIPROT ID: Q9NX76

Description: Human CMTM6 full length protein-synthetic nanodisc

Background: CMTM6 belongs to the chemokine-like factor gene superfamily, a novel family that is similar to the chemokine and transmembrane 4 superfamilies. This gene is one of several chemokine-like factor genes located in a cluster on chromosome 3.

CMTM6 is involved in the immune-related and metabolism-related pathways. It increases the expression of programmed cell death 1 ligand 1 protein, thereby impairing T cell function. Various manufactured therapeutic monoclonal antibody drugs, e.g. pembrolizumab, atezolizumab, durvalumab, nivolumab, and avelumab, bind to and inhibit the stimulation of PD-1 on CD8+ T cells by PD-L1. In effect, they block the ability of CMTM6 to suppress PDL1/PD-1-stimulated CD8+ T-cell immune responses against tumor cells. Elevated expression of CMTM6 in glioma and head and neck squamous cell carcinoma was shown to be associated with a poor prognosis; in addition, CMTM6 is also a potential therapeutic target for triple-negative breast cancer.

Species/Host: HEK293

Molecular Weight: The human full length CMTM6 protein has a MW of 20.4 kDa

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

ELISA assay to evaluate CMTM6-Nanodisc
0.2µg Human CMTM6-Nanodisc per well

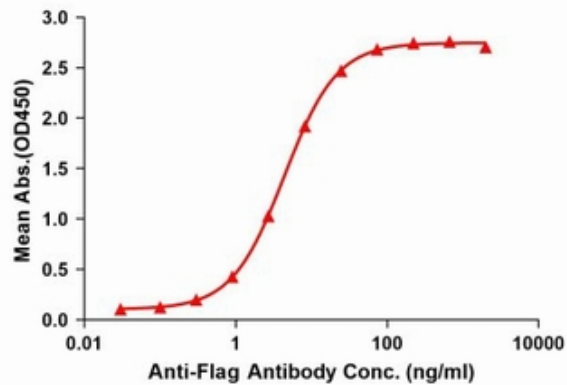


Figure1. Elisa plates were pre-coated with Flag Tag CMTM6-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CMTM6-Nanodisc is 4.393ng/ml.



Figure2. Human CMTM6-Nanodisc, Flag Tag on SDS-PAGE