

MOUSE TREM2 PROTEIN, HFC TAG**Cat.#:** 12202**Product Name:** Mouse TREM2 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** TREM-2; Trem2a; Trem2b; Trem2c**Target:** TREM2**UNIPROT ID:** Q99NH8**Description:** Recombinant mouse TREM2 protein with C-terminal human Fc tag

Background: The protein encoded by this gene is part of the immunoglobulin and lectin-like superfamily and functions as part of the innate immune system. This gene forms part of a cluster of genes on mouse chromosome 17 thought to be involved in innate immunity. This protein associates with the adaptor protein Dap-12 and recruits several factors, such as kinases and phospholipase C-gamma, to form a receptor signaling complex that activates myeloid cells, including dendritic cells and microglia. In humans homozygous loss-of-function mutations in this gene cause Nasu-Hakola disease and mutations in this gene may be risk factors to the development of Alzheimer's disease. In mouse mutations of this gene serve as a pathophysiological model for polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (Nasu-Hakola disease) and for inflammatory bowel disease. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jan 2013]

Species/Host: HEK293**Molecular Weight:** The protein has a predicted molecular mass of 42.9 kDa after removal of the signal peptide.**Molecular Characterization:** Mouse TREM2(Leu19-Ser171) hFc(Glu99-Ala330)**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.**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.

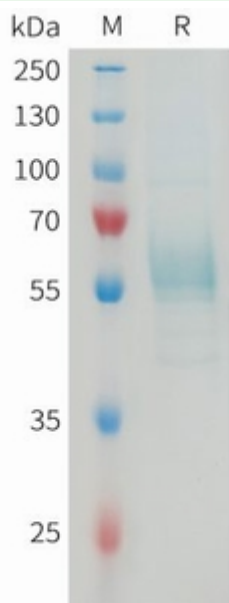


Figure 1. Mouse TREM2 Protein, hFc Tag on SDS-PAGE under reducing condition.