

Product Datasheet

Human TREM2 Protein, Fc Tag (orb750345)

Catalog Number	orb750345
Category	Proteins
Description	Triggering receptor expressed on myeloid cells 2 (TREM2) is a cell surface receptor of the immunoglobulin superfamily. The TREM2 is found in various tissue macrophages, such as CNS microglia, bone osteoclasts, alveolar, peritoneal and intestinal macrophages. TREM2 is also present on cultured bone marrow-derived macrophages and monocyte-derived dendritic cells. Some research have identified a rare variant of TREM2 that is a risk factor for Alzheimer disease (AD), which is the most common form of late-onset dementia. The extracellular region of TREM2 contains a single immunoglobulin superfamily domain and binds polyanionic ligands, such as bacterial lipopolysaccharide (LPS) and phospholipids⁸. Upon ligand binding, TREM2 transmits intracellular signals through an adaptor, DAP12 (also known as TYRO protein tyrosine kinase-binding protein (TYROBP)), which is associated with the transmembrane region of TREM2 and which recruits the protein tyrosine kinase SYK through its cytosolic immunoreceptor tyrosine-based activation motifs (ITAMs). TREM2 is a pro-tumorigenic marker of tumor-infiltrating macrophages in mouse models and human tumors that can be targeted to curb tumor growth and improve the efficacy of checkpoint blockade therapy while remodeling the landscape of tumor-infiltrating macrophages.
Target	TREM2
Conjugation	Unconjugated
Tag	C-Fc
Reactivity	Human
Form/Appearance	Powder
Buffer/Preservatives	50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH 7.5

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Purity	95%
UniProt ID	Q9NZC2
MW	43.9 kDa
Application notes	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 43.9 kDa. The protein migrates as 55-65 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Expression System	HEK293
Endotoxins	1.0 EU per µg
Expression Region	His 19 - Ser 174
Storage	-20°C
Note	For research use only
NCBI	Q9NZC2
Expiration Date	6 months from date of receipt.

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