Datasheet for ABIN7125886

# TREM2 Protein (AA 19-131) (Fc Tag)

Go to Product page

## Overview

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| Quantity: | 100 µg |
| Target: | TREM2 |
| Protein Characteristics: | AA 19-131 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This TREM2 protein is labelled with Fc Tag. |

## Product Details

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| Purpose: | Human TREM2 (19-131) Protein, Fc Tag |
| Sequence: | His 19 - Asp 131 |
| Characteristics: | Human TREM2 (19-131), Fc Tag is expressed from human 293 cells (HEK293). It contains AA His 19 - Asp 131 (Accession # Q9NZC2-1). |
| Purity: | >90 % as determined by SDS-PAGE. |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

## Target Details

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| Target: | TREM2 |
| Alternative Name: | TREM2 (TREM2 Products) |
| Background: | Synonyms: Triggering receptor expressed on myeloid cells 2,TREM2,TREM-2, |

## Target Details

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| | 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. |
| Molecular Weight: | 39.1 kDa |
| NCBI Accession: | NP_061838 |

## Application Details

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| Application Notes: | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 39.1 kDa. The protein migrates as 46-55 kDa under reducing (R) condition due to glycosylation. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH 7.5 |
| Storage: | -20 °C |
| Storage Comment: | -20°C |

 