

Human CellExp TNFRII, human recombinant protein
TNFRSF1B, CD120b, TNFRII
Catalog # PBV11017r**Specification**

Human CellExp TNFRII, human recombinant protein - Product infoPrimary Accession
Calculated MW[P20333](#)

This protein is fused with a C-terminal 6×his tag, has a calculated MW of 26 kDa. The predicted N-terminus is Leu23. Protein migrates as 23-26 kDa in reduced SDS-PAGE due to glycosylation. KDa

Human CellExp TNFRII, human recombinant protein - Additional InfoGene ID
Gene Symbol
Other Names
TNFRSF1B, CD120b, TNFRII**7133**
TNFRIIGene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Results

Human
HEK293 cells
SDS-PAGE; ≥95%
N/A;
Yes
Measured by its ability to inhibit the TNFα mediated cytotoxicity in the L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 0.05-0.5 µg/mL in the presence of 0.25 ng/mL rhTNFα.

Target/Specificity
TNFRII**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized**Storage**

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp TNFRII, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp TNFRII, human recombinant protein - Images

Human CellExp TNFRII, human recombinant protein - Background

TNF RI (also known as the p60 or p55 TNFR) and TNF RII (the p75 or p80 TNFR) are two distinct type I transmembrane glycoproteins that bind TNF with high affinity. Both RI and RII are prototypic members of the TNF receptor superfamily and have been designated TNFRSF1A and TNFRSF1B, respectively. Human TNF RII cDNA encodes a 461 amino acid (aa) residue precursor protein with a 22 aa putative signal peptide, a 235 aa extracellular domain, a 20 aa transmembrane domain and a 174 aa cytoplasmic domain. TNFRII is expressed in fetal brain. The protein is produced naturally as a soluble form (sTNFRII). The soluble receptor inhibits TNF α action by competing with cell surface receptors in binding TNF α , thereby blocking its biologic effects. TNFRII is strongly expressed at the cartilage-pannus junction, and plays a major role in a subset of families with multiple cases of rheumatoid arthritis (RA). Further, high plasma levels of sTNFRII were significantly associated with increased incidence of coronary heart disease, independent of established cardiovascular risk factors, and seems to be useful for monitoring the inflammatory activity of sarcoidosis.

Human CellExp TNFRII, human recombinant protein - References

Kohno T., et al. Proc. Natl. Acad. Sci. U.S.A. 87:8331-8335(1990).
Smith C.A., et al. Science 248:1019-1023(1990).
Beltinger C.P., et al. Genomics 35:94-100(1996).
Lainez B., et al. Int. Immunol. 16:169-177(2004).
Kalnina N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.