Recombinant Human TNFRSF11B/Osteoprotegerin Protein

Catalog No.: RP00180

www.abclonal.com

Sequence Information

Species	Gene ID
Human	4982
Swiss Prot	**Tags**
O00300	C-His

Synonyms

TNFRSF11B, OCIF, OPG, PDB5, TR1, TNF receptor superfamily member 11b,Osteoprotegerin, OCIF,OPG,PDB5,TR1

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE;≥95 % as determined by HPLC.
Calculated MW	**Observed MW**
44.46 kDa	55-65 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Osteoprotegerin or TNFRSF11B is a member of the TNF-receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand, both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest that this protein and its ligand play a role in lymph-node organogenesis and vascular calcification.

Basic Information

Description

Recombinant Human TNFRSF11B/Osteoprotegerin Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Glu22-Leu401) of human Osteoprotegerin/TNFRSF11B (Accession #NP_002537.3) fused with a 6×His tag at the C-terminus.

Activity

1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant human TNFRSF11B at 2 μg/mL (100 μL/well) can bind Recombinant human TNFSF11 with a linear range of 2-8 ng/mL.
2.Measured by its ability to inhibit TRAIL-mediated cytotoxicity using L-929 mouse fibroblast cells treated with TRAIL. The ED_{50} for this effect is 28.5-114 pg/mL in the presence of 20 ng/mL Recombinant Human TRAIL/TNFSF10.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

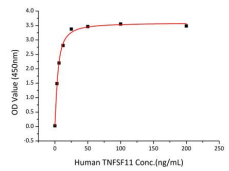
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

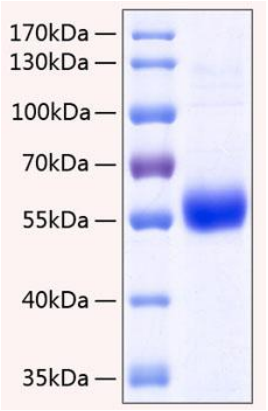
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

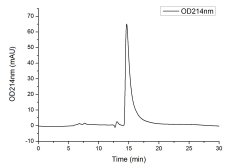
Validation Data



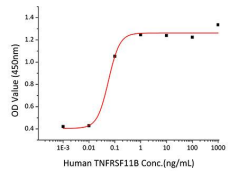
Immobilized Recombinant human TNFRSF11B at 2 μg/mL (100 μL/well) can bind Recombinant human TNFSF11 with a linear range of 2-8 ng/mL.



Recombinant Human TNFRSF11B/Osteoprotegerin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human Osteoprotegerin/TNFRSF11B Protein (Cat.RP00180) was greater than 95% as determined by SEC-HPLC.



Recombinant Human TNFRSF11B inhibit TRAIL-mediated cytotoxicity using L-929 mouse fibroblast cells treated with TRAIL. The ED_{50} for this effect is 28.5-114 pg/mL in the presence of 20 ng/mL Recombinant Human TRAIL/TNFSF10.