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TNFRSF12A
Recombinant Human TWEAKR / CD266 / FGF-inducible 14 (Fc Tag)

Catalog No.	CRH482A-Fc	**Quantity:**	50 µg
	CRH482B-Fc		100 µg
	CRH482C-Fc		1.0 mg

Alternate Names: Tumor necrosis factor receptor superfamily member 12A, Fibroblast growth factor-inducible immediate-early response protein 14, FGF-inducible 14, Tweak-receptor, TweakR, CD266

Description: TWEAKR is the receptor for TNFSF12/TWEAK. Fn14 shares 82% amino acid identity with the mouse sequence. It contains a signal peptide, an extracellular domain, a membrane-anchoring domain, and a cytoplasmic domain. In response to FGF1, calf serum, or phorbol ester stimulation of human quiescent fibroblasts in vitro, the level of Fn14 is increased. A 1.2-kb FN14 transcript was expressed at high levels in heart, placenta, and kidney, at intermediate levels in lung, skeletal muscle, and pancreas, and at low levels in brain and liver. In addition, elevated FN14 expression was found in human liver cancer cell lines and hepatocellular carcinoma specimens. Expression of mouse Fn14 was upregulated in hepatocellular carcinoma nodules that develop in 2 different transgenic mouse models of hepatocarcinogenesis. TWEAKR is the weak inducer of apoptosis in some cell types. It promotes angiogenesis, proliferation of endothelial cells and may modulate cellular adhesion to matrix proteins.

UniProt ID: Q9NP84-1

Protein Construction: A DNA sequence encoding the human TNFRSF12A isoform 1 extracellular domain (Glu 28-Trp 79) was fused with the Fc region of human IgG1 at the N-terminus.

Source: Hek293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The recombinant human TNFRSF12A/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 313 amino acids and has a calculated molecular mass of 34 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhTNFRSF12A/Fc monomer is approximately 37 kDa.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin Level: < 1.0 EU per µg protein as determined by the LAL method.

Biological Activity: Immobilized Cynomolgus mFc-TNFSF12 at 10 µg/ml (100 µl/well) can bind human Fc-TNFRSF12A, The ED50 of human Fc-TNFRSF12A is 0.07-0.15 µg/ml.

Predicted N-terminal: Glu

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Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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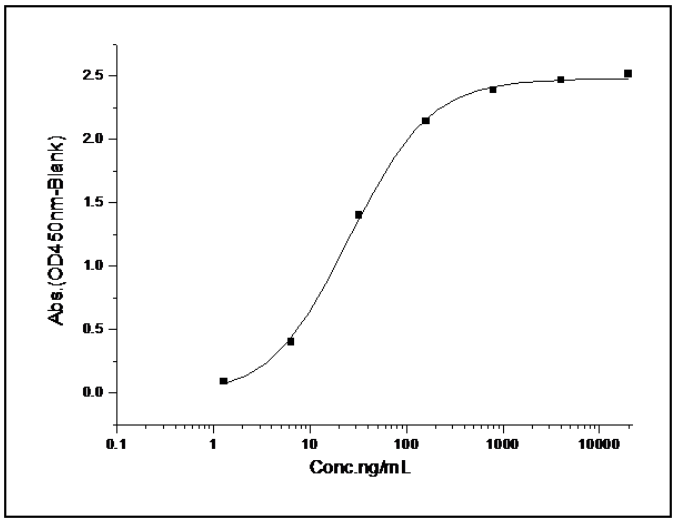
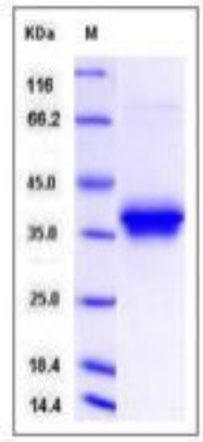


SDS-PAGE



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