

32-17091: Recombinant human CTLA-4 protein with C-terminal human Fc tag

Alternative Name : CTLA4, CD152

Description

Expression Host : HEK293

The protein has a predicted molecular mass of 39.6 kDa after removal of the signal peptide. The apparent molecular mass of CTLA4-hFc is approximately 40-55 kDa due to glycosylation.

This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases.

Product Info

- Amount :** 50 µg
- Purification :** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
- Content :** Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
- Storage condition :** Store at -80°C for 12 months (Avoid repeated freezing and thawing)

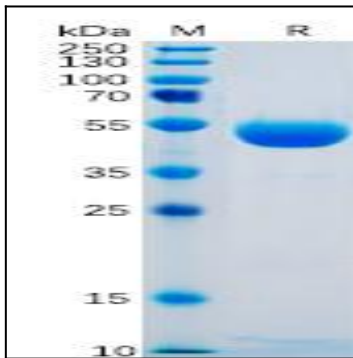


Figure 1. Human CTLA-4 Protein, hFc Tag on SDS-PAGE under reducing condition.

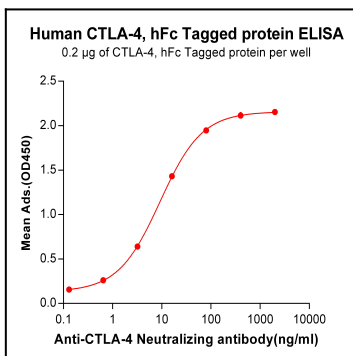


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CTLA-4, hFc tagged protein can bind Anti-CTLA4 Neutralizing antibody in a linear range of 0.64-80.0 ng/ml.

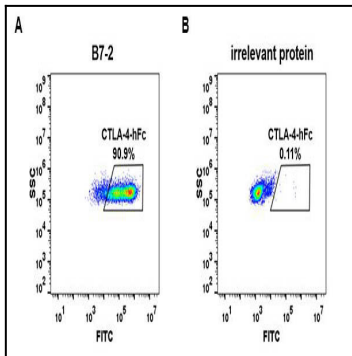


Figure 3. HEK293 cell line transfected with irrelevant protein (B) and human B7-2 (A) were surface stained with Human CTLA4, hFc tagged protein 1 μ g/ml followed by Alexa 488-conjugated anti-human IgG secondary antibody.