

Product Data:**Product SKU:** RPES0361**Size:** 10µg**Species:** Mouse**Expression host:** Human Cells**Uniprot:** P09793**Protein Information:****Molecular Mass:** 14.7 kDa**AP Molecular Mass:** 20-25 kDa**Tag:** C-Flag**Bio-activity:****Purity:** > 95 % as determined by SDS-PAGE**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.**Reconstitution:** Please refer to the printed manual for detailed information.**Application:****Synonyms:** Cytotoxic T-lymphocyte protein 4, Cytotoxic T-lymphocyte-associated antigen 4, CTLA-4, CD152, Ctla4

Immunogen Information:

Sequence: Ala37-Asp161

Background:

Mouse Cytotoxic Tlymphocyte 4(CTLA-4,CD152), is a type I transmembrane T cell inhibitory molecule. Within the ECD, Mouse CTLA-4 shares 68% aa sequence identity with human. CTLA4 is similar to the T cell costimulatory protein CD28 since both of the molecules bind to CD80 and CD86 on antigen-presenting cells. CTLA4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. Intracellular CTLA4 is also found in regulatory T cells and may play an important role in their functions. T cell activation through the T cell receptor and CD28 leads to increased expression of CTLA4. Genetic variations of CTLA4 have been associated with susceptibility to systemic lupus erythematosus(SLE), Graves disease(GRD), Celiac disease type3(CELIAC3) and Hepatitis B virus infection(HBVinfection).