

Product Data:

Product SKU: RPES0398

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P09793

Protein Information:

Molecular Mass: 40.4 kDa

AP Molecular Mass: 50-60 kDa

Tag: C-Fc

Bio-activity: Immobilized Human B7-mFc(Cat: PKSH033784) at 10µg/ml(100 µl/well) can bind Mouse CTLA-4-Fc. The ED50 of Mouse CTLA-4-Fc is 0.02µg/mL.

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: Functional ELISA

Synonyms: Cytotoxic T-lymphocyte protein 4; Cytotoxic T-lymphocyte-associated antigen 4; CTLA-4; CD152; Ctla4

Immunogen Information:

Sequence: Ala37-Asp161

Background:

Mouse Cytotoxic T lymphocyte 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 type 3 (CELIAC3) and Hepatitis B virus infection (HBV infection).