



Recombinant Protein Technical Manual

**Recombinant Cynomolgus 4BB/TNFRSF9/CD137
Protein (Fc Tag)
RPES3313**

Product Data:

Product SKU: RPES3313

Size: 10µg

Species: Cynomolgus

Expression host: Human Cells

Uniprot: A9YYE7

Protein Information:

Molecular Mass: 44.4 kDa

AP Molecular Mass: 60 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

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

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: CD137; ILA; TNFRSF9; 4BB ligand receptor; CDw137; T-cell antigen 4BB homolog; T-cell antigen ILA

Immunogen Information:

Sequence: Leu24-Gln186

Background:

Tumor necrosis factor receptor superfamily member 9 (TNFRSF9), also known as CD137 and 4BB, is an inducible T cell surface protein belonging to the tumor necrosis factor receptor superfamily. It is a single-pass type I membrane protein which contains 4 TNFR-Cys repeats. The human and mouse proteins share 60% amino acid sequence identity. CD137 is expressed by mesenchymal cells, including endothelial cells, chondrocytes, and cells of the central nervous system. CD137 is also broadly expressed by cells of the human immune system, is broadly expressed by cells of the human immune system, including activated CD8+ and CD4+ T cells, activated natural killer (NK) cells, follicular dendritic cells (FDCs) and monocytes. CD137 has diverse roles in the immune response, the one key function is to promote the survival of both T cells and dendritic cells by binding the cognate ligand CD137L (4BBL).