



Recombinant Protein Technical Manual

Recombinant Mouse CD40/TNFRSF5 Protein (His & Fc Tag)(Active)

RPES3027

Product Data:

Product SKU: RPES3027

Size: 50µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: P27512

Protein Information:

Molecular Mass: 47 kDa

AP Molecular Mass: 57 kDa

Tag: C-His-Fc

Bio-activity: Measured by its ability to bind recombinant human CD40L in a functional ELISA.

Purity: > 90 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein 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 sterile PBS, pH 7.4

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

Application: Functional ELISA

Synonyms: Tumor necrosis factor receptor superfamily member 5; B-cell surface antigen CD40; Bp50; CD40L receptor; CD40; TNFRSF5; I326936; HIGM1; IGM; IMD3; p50; T-BAM; Tnfrsf5; TRAP

Immunogen Information:

Sequence: Met 1-Arg 193

Background:

CD40, also known as TNFRSF5, is a member of the TNF receptor superfamily which are single transmembrane-spanning glycoproteins. CD40 protein plays an essential role in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 protein is expressed in B cells, dendritic cells, macrophages, endothelial cells, and several tumor cell lines. Defects in CD40 result in hyper-IgM immunodeficiency type 3 (HIGM3). In addition, CD40/CD40L interaction is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis.