



## Recombinant Protein Technical Manual

**Recombinant Mouse TNFSF9 Protein (His Tag)  
(Active)  
RPES3308**

### Product Data:

**Product SKU:** RPES3308

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** P41274

### Protein Information:

**Molecular Mass:** 25.6 kDa

**AP Molecular Mass:** 35-40 kDa

**Tag:** NOHis

**Bio-activity:** Immobilized Mouse 4BBL-His at 2µg/ml(100 µl/well) can bind Human 4BB-Fc(Cat: PKSH032026).

**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:** Tumor necrosis factor ligand superfamily member 9; 4BB ligand; 4BBL; Tnfsf9; Cd137l; Cd157l; Ly63l

## Immunogen Information:

**Sequence:** Arg104-Glu309

## Background:

Tumor necrosis factor ligand superfamily member 9, also known as 4BBL, is a member of the the tumor necrosis factor family. Mouse 4BBL cDNA encodes a 309 amino acid residues (aa) protein with an 82 aa N-terminal cytoplasmic domain, a 21 aa transmembrane domain and a 206 aa C-terminal extracellular domain. The extracellular domain of 4BBL has a tertiary structure similar to that of other TNFSF members, but shares only low aa sequence homology (146%). 4BBL is predominantly expressed on activated antigen presenting cells (APCs) such as B cells, macrophages and dendritic cells (DCs). It is also expressed on most T and B lymphoma cell lines. TNFSF9 has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells, and is thought to be involved in T cell-tumor cell interaction.