



Recombinant Protein Technical Manual  
Recombinant Human CD8 beta/CD8B Protein (His  
Tag)  
RPES3153

Product Data:

**Product SKU:** RPES3153

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P10966

Protein Information:

**Molecular Mass:** 17.8 kDa

**AP Molecular Mass:** 29 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing 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 20mM PB, 150mM NaCl, pH 7.2.

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

**Application:**

**Synonyms:** T-Cell Surface Glycoprotein CD8 Beta Chain; CD8b; CD8B; CD8B1; LEU2; LY3; LYT3; P37

## Immunogen Information:

**Sequence:** Leu22-Pro170

## Background:

T-Cell Surface Glycoprotein CD8 $\beta$  Chain (CD8 Antigen) is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 Antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. Multiple alternatively spliced transcript variants encoding distinct membrane associated or secreted isoforms have been described. A pseudogene, also located on chromosome 2, has been identified.