



Recombinant Protein Technical Manual
Recombinant Human CD74 Protein (His Tag)(Active)
RPES3665

Product Data:

Product SKU: RPES3665

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_004346.1

Protein Information:

Molecular Mass: 20.4 kDa

AP Molecular Mass:

Tag: N-His

Bio-activity: Measured by its binding ability in a functional ELISA. Immobilized human CD74 at 5 µg/ml (100 µl/well) can bind biotinylated human CTSL1 with a linear range of 3.2-400 ng/ml.

Purity: > 80 % as determined by reducing 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: DHLAG;HLADG;Ia-GAMMA;II

Immunogen Information:

Sequence: Gln 73-Met 232

Background:

The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associate with the immune function of the cell. There are more than 320 CD unique clusters and subclusters that have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alters the behavior of the cell. Some CD proteins do not take part in cell signal processing but have other functions such as cell adhesion. CD74, also known as HLA class II histocompatibility antigen gamma chain and HLA-DR antigen-associated invariant chain, is a polypeptide involved in the formation and transport of MHC class II protein. CD74 is expressed by B cells, macrophages, and Reed-Sternberg cells. When MHC class II protein was in the rough ER, its peptide-binding cleft was blocked by CD74 to prevent it from interacting with the endogenous peptides. CD74 also serves to facilitate MHC class II's export from ER.