Recombinant Protein Technical Manual

Recombinant Human CD24 Protein (Ser27-Gly59,Ser44Thr)(Fc Tag)

RPES4934

Product Data:

Product SKU: RPES4934

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P25063

Protein Information:

Molecular Mass: 29.8 kDa

AP Molecular Mass: 40-55 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℃, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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:

Synonyms: Signal transducer CD24; Small cell lung carcinoma cluster 4 antigen; CD24; CD24A;FLJ22950;FLJ43543;MGC75043

Immunogen Information:

Sequence: Ser27-Gly59(Ser44Thr)

Background:

Signal Transducer CD24 is a heavily and variably glycosylated GPI-linked sialoprotein. Human CD24 is expressed on B lineage cells and granulocytes, on epithelial, neuronal, and muscle cells, and on a range of tumor cells. CD24 expression is regulated during lineage development and with the activation of various cell types. Antibody crosslinking of CD24 enhances the induction of apoptosis in B and T lymphocytes which contributes to negative selection and the induction of immune tolerance. CD24 on antigen presenting cells cooperates with B7 molecules in the costimulation of T cells. CD24 associates in cis with Siglec10 and with the danger-associated molecules HMGB1, HSP70, or HSP90 which are released from necrotic or damaged cells. Formation of these ternary complexes fills a protective role: the resulting Siglec10 signaling inhibits inflammatory responses that are otherwise induced by extracellular DAMPs.