

Recombinant Protein Technical Manual Recombinant Human CRTAM /CD355 Protein (His Tag)(Active) RPES1152

Product Data:

Product SKU: RPES1152	<b>Size:</b> 10µg	

Species: Human

Expression host: Human Cells

Uniprot: 095727

Protein	Inforn	nation

Molecular Mass:	31.0 kDa
AP Molecular Mass:	64 kDa
Tag:	C-6His
Bio-activity:	Immobilized Mouse CADM1-Fc(Cat: PKSM041213) at 2µg/ml(100 µl/well) can bind Human CRTAM-His. The ED50 of Human CRTAM-His is 4.905 ug/ml .
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per $\mu g$ 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 $\mu m$ filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Cytotoxic and Regulatory T-Cell Molecule; Class-I MHC-Restricted T-Cell- Associated Molecule; CD355; CRTAM

## Sequence: Ser18-Ser286

## Background:

Cytotoxic and Regulatory T-Cell Molecule (CRTAM) is a member of Nectin family under the immunoglobulin superfamily that is expressed by activated CD8+ and NK T cells. CRTAM is found in spleen, thymus, small intestine, peripheral blood, and it is highly expressed by Purkinje cells of the cerebellum. CRTAM is a type I transmembrane glycoprotein containing one Ig-like C2-type domain and one Ig-like V-type domain in its extracellular domain, while its cytoplasmic region shows a potential class I PDZ domain. CRTAM is expressed as a homodimer on the cell surface but does not show homotypic binding in trans. The high affinity of CRTAM/IGSF4 adhesion allows CRTAM to disrupt IGSF4 homotypic interactions. IGSF4 and T cell receptor coengagement of CD8+ cells expressiong CRTAM induces increased IFNy or IL-22 production.