



Recombinant Protein Technical Manual

Recombinant Rat CD38 Protein (His Tag)

RPES4342

Product Data:

Product SKU: RPES4342

Size: 10µg

Species: Rat

Expression host: Human Cells

Uniprot: Q64244

Protein Information:

Molecular Mass: 30.8 kDa

AP Molecular Mass: 35-50 kDa

Tag: C-His

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°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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:

Synonyms: 17A; 323/A3; ACSTD1;CD326;EGP-2; EGP314; EGP40; EpCAM; MOC31; TACST; TACSTD1; TROP1;

Immunogen Information:

Sequence: Trp45-Val303

Background:

Epithelial Cellular Adhesion Molecule (Ep-CAM), also known as EGP314, mEGP314, Protein 289A, Tumor-associated calcium signal transducer 1, CD326, belongs to the EPCAM family. Its' monomer subunit structure interacts with phosphorylated CLDN7. Ep-CAM may act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. It plays a role in embryonic stem cells proliferation and differentiation. It also up-regulates the expression of FABP5, MYC and cyclins A and E. The post-translational modification glycosylation at Asn98 is crucial for protein stability.