Data Sheet (Cat.No.TMPJ-00200)

EpCAM/TROP1 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms: 17-1A;323/A3;TROP1;EGP314;ACSTD1;CD326;EGP-2;MOC31;EGP40;TACST-1;TACSTD1;EpCAM

Protein Construction: Gln24-Thr266

Species: Mouse

Expression Host: HEK293 Cells

Accession: Q99JW5

Molecular Weight: 60-80 KDa (reducing condition)

AA Sequence: Gln24-Thr266

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: Greater than 95% as determined by reducing SDS-PAGE. (QC verified)

Endotoxin: < 0.1 ng/μg (1 EU/μg) as determined by LAL test.

Formulation: Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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 Asn-198 is crucial for protein stability.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481