# Recombinant Protein Technical Manual

## Recombinant Mouse EpCAM/TROP Protein (Fc Tag)(Active)

**RPES1771**

## Product Data:

**Product SKU:** RPES1771

**Size:** 10µg

**Species**: Mouse

**Expression host:** Human Cells

**Uniprot:** Q99JW5

## Protein Information:

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|---|---|
| **Molecular Mass:** | 54.8 kDa |
| **AP Molecular Mass:** | 60-80 kDa |
| **Tag:** | C-Fc |
| **Bio-activity:** | Immobilized Human CTSL2-His(Cat: PKSH032183) at 10µg/ml(100 µl/well) can bind Mouse EpCAM-Fc. |
| **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:** | Functional ELISA |
| **Synonyms:** | Neurotrophic tyrosine kinase receptor-related 1; receptor tyrosine kinase-like orphan receptor 1; ROR1;tyrosine-protein kinase transmembrane receptor ROR1; Epithelial cell adhesion molecule; Tumor-associated calcium signal transducer 1;TROP1;CD326;EGP;EGP-2;Egp314;Ep-CAM;EpCAM1;GA733-2;gp40;Ly74;Tacsd1;Tacstd1 |

## Immunogen Information:

**Sequence:** Gln24-Thr266

## Background:

ROR1, also known as Neurotrophic tyrosine kinase, receptor-related 1, belongs to the ROR subfamily of Tyr protein kinase family,a protein kinase superfamily. It has very low kinase activity in vitro and is unlikely to function as a tyrosine kinase in vivo. Human ROR1 is a type I transmembrane protein with 937 amino acids (aa) in length. It contains a 29 aa signal sequence, a 377 aa extracellular domain (ECD), a 21 aa transmembrane segment, and a 510 aa cytoplasmic region. Human ROR1 shares 97% and 58% aa sequence identity with mouse ROR1 and human ROR2, respectively. ROR1 may act as a receptor for wnt ligand WNT5A which may result in the inhibition of WNT3A-mediated signaling. ROR1 expressed strongly in human heart, lung and kidney, but weakly in the CNS. Its Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm.