



Recombinant Protein Technical Manual

Recombinant Human PRL-2/PTP4A2 Protein (His Tag)
RPES2625

Product Data:

Product SKU: RPES2625

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q12974

Protein Information:

Molecular Mass: 20.2 kDa

AP Molecular Mass: 18 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Protein tyrosine phosphatase type IVA 2;PTP4A2;HU-PP;OV;PTP(CAAXII);Protein-tyrosine phosphatase 4a2;Protein-tyrosine phosphatase of regenerating liver 2;PRL-2;HH13;HH7-2;HMT;HNMT-S1;HNMT-S2;HU-PP;OV;PRL-2;PRL2;ptp-IV1a;ptp-IV1b;PTP4A;PTPCAAX2

Immunogen Information:

Sequence: Met 1-Gln167

Background:

PTP4A2, also known as PRL2 or PTPCAAX2, is short for Protein tyrosine phosphatase type IVA 2. This protein exists in cell membrane, cytoplasm, endosome and membrane. PTP4A2 is often farnesylated during post-translational modification. Farnesylation is required for membrane targeting and for interaction with RABGGTB. The unfarnesylated forms are redirected to the nucleus and cytosol. It can stimulate progression from G1 into S phase during mitosis and promotes tumors. It also inhibits geranylgeranyl transferase type II activity by blocking the association between RABGGTA and RABGGTB.