



Recombinant Protein Technical Manual

**Recombinant Human Astrocytic Phosphoprotein
PEA5/PEA15 Protein
RPES3043**

Product Data:

Product SKU: RPES3043

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q15121

Protein Information:

Molecular Mass: 15.3 kDa

AP Molecular Mass: 126 kDa

Tag:

Bio-activity:

Purity: > 95 % 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 20mM PB,150mM NaCl,pH7.4.

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

Application:

Synonyms: Astrocytic Phosphoprotein PEA5; 15 kDa Phosphoprotein Enriched in Astrocytes; Phosphoprotein Enriched in Diabetes; PED; PEA15

Immunogen Information:

Sequence: Met 1-Ala130

Background:

Astrocytic phosphoprotein PEA5 (PEA15) is a death effector domain (DED)-containing protein. PEA15 is mainly expressed in the central nervous system, principally in astrocytes. Increased PEA15 levels affect tumorigenesis and cancer progression. PEA15 is overexpressed in breast cancers and gliomas as well as in type 2 diabetes. PEA15 blocks Ras-mediated inhibition of integrin activation and modulates the ERK MAP kinase cascade. PEA15 also inhibits RPS6KA3 activities by holding it in the cytoplasm. In addition, PEA15 inhibits both TNFRSF6 and TNFRSF1A mediated CASP8 activity and apoptosis. At present, PEA15 expression is also a significant prognostic marker in ovarian cancer.