Recombinant Protein Technical Manual

Recombinant Human CDK2AP2 Protein (E. coli, His Tag)

RPES4902

Product Data:

Product SKU: RPES4902

Size: 20µg

Species: Human

Expression host: E. coli

Uniprot: O75956

Protein Information:

Molecular Mass: 14.5 kDa

AP Molecular Mass: 18 & 12 kDa

Tag: C-His

Bio-activity:

Purity: > 78 %(the upper band)+17 %(the lower band) as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

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℃ 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 sterile PBS, 15% glycerol, pH 7.5

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

Application:

Synonyms: Cyclin-dependent kinase 2-associated protein 2;CDK2-associated protein 2;DOC-related protein;DOCR;CDK2AP2;DOC1R;p14

Immunogen Information:

Sequence: Met 1-Thr 126

Background:

CDK2AP2 belongs to the CDK2AP family. Members of this family of proteins are cell-growth suppressors, associating with and influencing the biological activities of important cell cycle regulators in the S phase including monomeric non-phosphorylated cyclin-dependent kinase 2 (CDK2) and DNA polymerase alpha/primase. CDK2AP2 contains 5 distinct gt-ag introns. Transcription produces 7 different mRNAs, 6 alternatively spliced variants and 1 unspliced form. There are 2 non overlapping alternative last exons and 4 validated alternative polyadenylation sites. The mRNAs appear to differ splicing versus retention of 3 introns. CDK2AP2 plays a role in regulating self-renewal of mouse embryonic stem cells (mESC) under permissive conditions, and cell survival during differentiation of the mESC into terminally differentiated cell types.