Datasheet for ABIN7491517

CDKN2A Protein (Fc Tag)

1 Image

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Overview

Quantity:	100 µg
Target:	CDKN2A
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDKN2A protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human p16(11-40) Protein with N-terminal human Fc tag
Specificity:	HFc (Glu99-Ala330) p16 (Pro11-Ala40)
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	CDKN2A
Alternative Name:	p16 (CDKN2A Products)
Background:	This gene generates several transcript variants which differ in their first exons. At least three alternatively spliced variants encoding distinct proteins have been reported, two of which encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The

Target Details

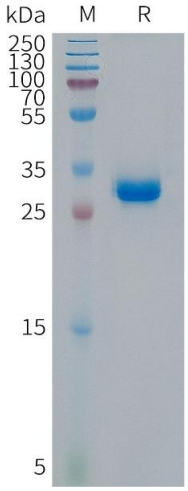
	remaining transcript includes an alternate first exon located 20 Kb upstream of the remainder of the gene, this transcript contains an alternate open reading frame (ARF) that specifies a protein which is structurally unrelated to the products of the other variants. This ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact with, and sequester, the E3 ubiquitin-protein ligase MDM2, a protein responsible for the degradation of p53. In spite of the structural and functional differences, the CDK inhibitor isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4 and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control. This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an important tumor suppressor gene. [provided by RefSeq, Sep 2012]
Molecular Weight:	predicted molecular mass of 29.2 kDa after removal of the signal peptide. The apparent molecular mass of hFc-p16(11-40) is 25-35 kDa due to glycosylation.
UniProt:	P42771
Pathways:	Mitotic G1-G1/S Phases, Stem Cell Maintenance, Positive Regulation of Endopeptidase Activity, Autophagy, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months



SDS-PAGE

Image 1. Human p16(11-40) Protein, hFc Tag on SDS-PAGE under reducing condition.

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