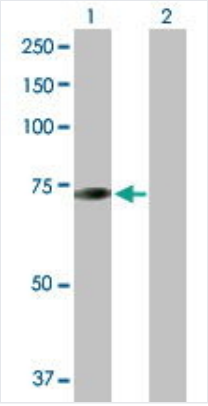
CDKN2AIP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDKN2AIP, Polyclonal Antibody
Full Product Name	CDKN2AIP (CDKN2A-interacting Protein, Collaborator of ARF, CARF, FLJ20036) (PE)
Product Gene Name	anti-CDKN2AIP antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDKN2AIP.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
OMIM	600160
3D Structure	ModBase 3D Structure for Q8N726
Immunogen	Full length human CDKN2AIP, aa1-579 (AAH22270.1).
Immunogen Sequence	MAQEVSEYLSQNPRVAAWVEALRCDGETDKHWRHRRDFLLRNAGDLAPAGGAASASTDEAADAESGTRNRQLQQLISFSMAWANHVFLGCRYPQKVM
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-CDKN2AIP antibody	Antibodies; Protein Kinase Inhibitors
Applications Tested/Suitable for anti-CDKN2AIP antibody	Western Blot (WB)
Application Notes for anti-CDKN2AIP antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDKN2AIP antibody	MBS6373597 is an antibody targeting CDKN2AIP. Also known as CDKN2AIP (CDKN2A-interacting Protein, Collaborator of ARF, CARF, FLJ20036) (P

Other Notes	Small volumes of anti-CDKN2AIP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If ne



Western Blot (WB) of anti-CDKN2AIP antibody
Western Blot analysis of CDKN2AIP expression in transfected 293T cell line by CDKN2AIP polyclonal antibody. Lane 1: CDKN2AIP transfected lysate (61.1kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKN2AIP. It may not necessarily be applicable to this product.

NCBI GI #	18490354
NCBI GeneID	55602
NCBI Accession #	BC022270.1
NCBI Related Accession #	AAH22270.1
UniProt Primary Accession #	Q8N726
UniProt Related Accession #	Q9NXV6
NCBI Official Full Name	Homo sapiens CDKN2A interacting protein, mRNA
NCBI Official Synonym Full Names	CDKN2A interacting protein
NCBI Official Symbol	CDKN2AIP
NCBI Official Synonym Symbols	CARF
UniProt Protein Name	Cyclin-dependent kinase inhibitor 2A, isoform 4
UniProt Synonym Protein Names	p14ARF; p19ARF
Protein Family	CDKN2A-interacting protein
UniProt Gene Name	CDKN2A
UniProt Synonym Gene Names	CDKN2; MLM
UniProt Entry Name	CD2A2_HUMAN
NCBI Protein Information	CDKN2A-interacting protein
NCBI Summary for CDKN2AIP	The protein encoded by this gene regulates the DNA damage response through several different signaling pathways. One such pathway is the p53-HDM2-p21(WAF1) pathway, which is critical to the DNA damage response. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

UniProt Comments for CDKN2AIP	p16-INK4A iso4: a cell-cycle regulatory protein that interacts with CDK4 and CDK6, inhibiting their ability to interact with cyclins D. Inhibits the phosphorylation of the retinoblastoma protein by CDK4 or CDK6, and entry into the S phase of the cell cycle. The p16INK4A and p14ARF proteins are encoded by CDKN2A, a known tumour suppressor gene in multiple cancers. CDKN2A is inactivated in 72% of cases of lung squamous cell carcinoma: 21% by epigenetic silencing by methylation, 18% inactivating mutation, 4% by exon 1b skipping, and 29% by homozygous deletion. Defects in CDKN2A are the cause of familial atypical multiple mole melanoma-pancreatic carcinoma syndrome, Li-Fraumeni syndrome, and the melanoma-astrocytoma syndrome. The melanoma-astrocytoma syndrome is characterized by a dual predisposition to melanoma and neural system tumors, commonly astrocytoma. Four alternatively spliced p16 isoforms have been reported. Two alternatively spliced isoforms of ARF have been reported. Protein type: Nucleolus; Cell cycle regulation; Tumor suppressor Chromosomal Location of Human Ortholog: 9p21 Cellular Component: nucleoplasm; nuclear body; protein complex; mitochondrion; cytoplasm; nucleolus; nucleus; cytosol Molecular Function: cyclin-dependent protein kinase inhibitor activity; NF-kappaB binding; protein binding; DNA binding; p53 binding; ubiquitin-protein ligase inhibitor activity; transcription factor binding; protein kinase binding Biological Process: protein polyubiquitination; positive regulation of apoptosis; positive regulation of transcription, DNA-dependent; regulation of protein stability; negative regulation of B cell proliferation; regulation of protein export from nucleus; negative regulation of cell proliferation; apoptotic mitochondrial changes; regulation of G2/M transition of mitotic cell cycle; somatic stem cell division; cell cycle arrest; negative regulation of immature T cell proliferation in the thymus; caspase activation; protein destabilization; transcription, DNA-dependent; protein stabilization; negative regulation of cyclin-dependent protein kinase activity; negative regulation of cell-matrix adhesion; positive regulation of protein sumoylation; inhibition of NF-kappaB transcription factor; Ras protein signal transduction; negative regulation of ubiquitin-protein ligase activity; negative regulation of protein kinase activity; negative regulation of phosphorylation; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; negative regulation of cell growth; positive regulation of DNA damage response, signal transduction by p53 class mediator; negative regulation of transcription, DNA-dependent; rRNA processing; G1/S transition of mitotic cell cycle Disease: Melanoma-astrocytoma Syndrome; Melanoma, Cutaneous Malignant, Susceptibility To, 2; Li-fraumeni Syndrome 1; Melanoma-pancreatic Cancer Syndrome
Research Articles on CDKN2AIP	**1.** a comprehensive current understanding into the molecular mechanisms of CARF functions in regulation of DNA damage response, cell cycle checkpoints, cell survival and death signaling pathways.
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