P18 INK (CDKN2C) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	p18 INK (CDKN2C), Polyclonal Antibody
Full Product Name	p18 INK Conjugated Antibody
Product Gene Name	anti-CDKN2C antibody
Product Synonym Names	OTTHUMP00000046546; p18 (INK4C); p18-INK4C; CDK6 inhibitor p18; cyclin-dependent inhibitor
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total p18 INK protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	18,127 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (51434367..51440309). Location: 1p32
OMIM	603369
3D Structure	ModBase 3D Structure for P42773
Immunogen	Synthesized peptide derived from human p18 INK antibody.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CDKN2C antibody	Most Applications
Application Notes for anti-CDKN2C antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-CDKN2C antibody	Interacts strongly with CDK6, weakly with CDK4. Inhibits cell growth and proliferation with a correlated dependence on endogenous retinoblastoma protein RB.
Other Notes	Small volumes of anti-CDKN2C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDKN2C purchase	MBS9444416 is an antibody targeting CDKN2C. Also known as p18 INK Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKN2C. It may not necessarily be applicable to this product.

NCBI GI #	4502751
NCBI GeneID	1031
NCBI Accession #	NP_001253.1
UniProt Primary Accession #	P42773
UniProt Secondary Accession #	Q8TB83
UniProt Related Accession #	P42773
GenBank Nucleotide #	NM_001262.2
NCBI Official Full Name	cyclin-dependent kinase 4 inhibitor C
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)
NCBI Official Symbol	CDKN2C
NCBI Official Synonym Symbols	p18; INK4C; p18-INK4C
UniProt Protein Name	Cyclin-dependent kinase 4 inhibitor C
UniProt Synonym Protein Names	Cyclin-dependent kinase 6 inhibitor; p18-INK4c; p18-INK6
Protein Family	Cyclin-dependent kinase 4 inhibitor
UniProt Gene Name	CDKN2C
UniProt Synonym Gene Names	CDKN6
UniProt Entry Name	CDN2C_HUMAN
NCBI Protein Information	cyclin-dependent kinase 4 inhibitor C; p18-INK6; CDK6 inhibitor p18; cyclin-dependent inhibitor; cyclin-dependent kinase 6 inhibitor p18
NCBI Summary for CDKN2C	The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been shown to interact with CDK4 or CDK6, and prevent the activation of the CDK kinases, thus function as a cell growth regulator that controls cell cycle G1 progression. Ectopic expression of this gene was shown to suppress the growth of human cells in a manner that appears to correlate with the presence of a wild-type RB1 function. Studies in the knockout mice suggested the roles of this gene in regulating spermatogenesis, as well as in suppressing tumorigenesis. Two alternatively spliced transcript variants of this gene, which encode an identical protein, have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for CDKN2C	CDKN2C: Interacts strongly with CDK6, weakly with CDK4. Inhibits cell growth and proliferation with a correlated dependence on endogenous retinoblastoma protein RB. Heterodimer of p18 with CDK6. Highest levels found in skeletal muscle. Also found in pancreas and heart. Belongs to the CDKN2 cyclin-dependent kinase inhibitor family. Protein type: Cell cycle regulation; Protein kinase, regulatory subunit; Inhibitor Chromosomal Location of Human Ortholog: 1p32 Cellular Component: cytoplasm; nucleus; cytosol Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding; protein kinase binding Biological Process: negative regulation of cell proliferation; oligodendrocyte differentiation; negative regulation of phosphorylation; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; negative regulation of cell growth; cell cycle arrest; G1/S transition of mitotic cell cycle
Research Articles on CDKN2C	**1.** Analysis of B1a lymphocyte phenotypes of p18-deficient C57BL/6 mice finds that p18 is a key regulator of the size of the B1a cell pool.

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