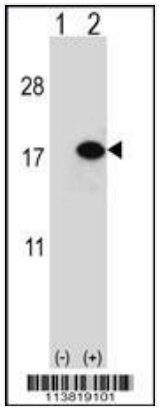
CDKN2B Antibody – Rabbit Polyclonal

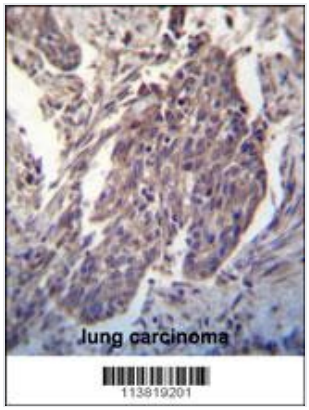
PRODUCT OVERVIEW

Product Name	CDKN2B, Polyclonal Antibody
Full Product Name	CDKN2B, NT (CDKN2B, MTS2, Cyclin-dependent kinase 4 inhibitor B, Multiple tumor suppressor 2, p14-INK4b, p15-INK4b) (Biotin)
Product Gene Name	anti-CDKN2B antibody
Product Synonym Names	CDKN2B; MTS2; Cyclin-dependent kinase 4 inhibitor B; Multiple tumor suppressor 2; p14-INK4b; p15-INK4b
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 Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	14,722 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (22002902..22009312, complement). Location: 9p21
OMIM	600431
3D Structure	ModBase 3D Structure for P42772
Immunogen	CDKN2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human CDKN2B.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CDKN2B antibody	Antibodies; Protein Kinase Inhibitors
Applications Tested/Suitable for anti-CDKN2B antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CDKN2B antibody	FC/FACS: 1:10-50 ELISA: 1:1,000 IF: 1:10-50 IHC: 1:10-50 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CDKN2B antibody	This gene lies adjacent to the tumor suppressor gene CDKN2A in a region that is frequently mutated and deleted in a wide variety of tumors. This gene encodes a cyclin-dependent kinase inhibitor, which forms a complex with CDK4 or CDK6, and prevents the activation of the CDK kinases, thus the encoded protein functions as a cell growth regulator that controls cell cycle G1 progression. The expression of this gene was found to be dramatically induced by TGF beta, which suggested its role in the TGF beta induced growth inhibition. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported.

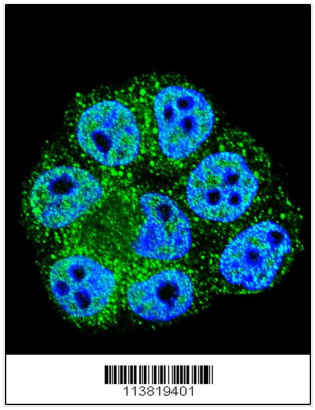
Product References and Citations for anti-CDKN2B antibody	Camacho, C.V., et al. Carcinogenesis 31(10):1889-1896(2010). Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Pechlivanis, S., et al. Arterioscler. Thromb. Vasc. Biol. 30(9):1867-1872(2010). Heni, M., et al. Diabetes (2010). In press: Roder, C., et al. Childs Nerv Syst (2010).
Other Notes	Small volumes of anti-CDKN2B 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 CDKN2B purchase	MBS6284712 is an antibody targeting CDKN2B. Also known as CDKN2B, NT (CDKN2B, MTS2, Cyclin-dependent kinase 4 inhibitor B, Multiple tumor suppressor 2, p14-INK4b, p15-INK4b) (Biotin). Reactive in Human. Host: Rabbit.



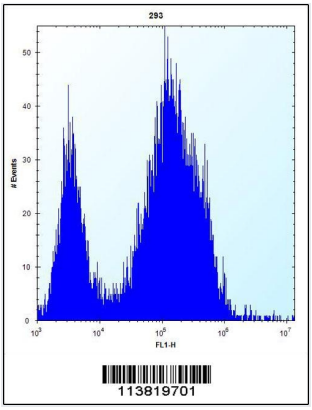
Western Blot (WB) of anti-CDKN2B antibody
Western blot analysis of CDKN2B (arrow) using rabbit polyclonal CDKN2B Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CDKN2B gene.



Immunohistochemistry (IHC) of anti-CDKN2B antibody
CDKN2B Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CDKN2B Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-CDKN2B antibody
Confocal immunofluorescent analysis of CDKN2B Antibody (N-term) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Flow Cytometry (FC/FACS) of anti-CDKN2B antibody
CDKN2B Antibody (N-term) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKN2B. It may not necessarily be applicable to this product.

NCBI GI #	17981694
NCBI GeneID	1030
NCBI Accession #	NP_004927.2
UniProt Primary Accession #	P42772
UniProt Secondary Accession #	O15125; Q6FI09
UniProt Related Accession #	P42772; AAB32712

GenBank Nucleotide #	NM_004936.3
NCBI Official Full Name	cyclin-dependent kinase 4 inhibitor B isoform 1
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
NCBI Official Symbol	CDKN2B
NCBI Official Synonym Symbols	P15; MTS2; TP15; CDK4I; INK4B; p15INK4b
UniProt Protein Name	Cyclin-dependent kinase 4 inhibitor B
UniProt Synonym Protein Names	Multiple tumor suppressor 2; MTS-2; p14-INK4b; p15-INK4b
Protein Family	Cyclin-dependent kinase 4 inhibitor
UniProt Gene Name	CDKN2B
UniProt Synonym Gene Names	MTS2; MTS-2; p15INK4B
UniProt Entry Name	CDN2B_HUMAN
NCBI Protein Information	cyclin-dependent kinase 4 inhibitor B; MTS-2; p14-INK4b; p14_INK4B; p15-INK4b; p15_INK4B; CDK4B inhibitor; p14_CDK inhibitor; p15 CDK inhibitor; CDK inhibitory protein; multiple tumor suppressor 2; cyclin-dependent kinases 4 and 6 binding protein
UniProt Comments for CDKN2B	p15-INK4B: a potent inhibitor that nteracts strongly with CDK4 and CDK6. Potential effector of TGF-beta induced cell cycle arrest. Protein type: Cell cycle regulation; Inhibitor; Tumor suppressor; Protein kinase, regulatory subunit Chromosomal Location of Human Ortholog: 9p21 Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding; protein kinase binding Biological Process: spleen development; transcription initiation from RNA polymerase II promoter; transcription, DNA-dependent; megakaryocyte differentiation; mitotic cell cycle checkpoint; positive regulation of transforming growth factor beta receptor signaling pathway; cellular response to nutrient; liver development; response to organic cyclic substance; negative regulation of cell proliferation; transforming growth factor beta receptor signaling pathway; response to cytokine stimulus; cellular response to extracellular stimulus; positive regulation of epithelial cell differentiation; negative regulation of phosphorylation; positive regulation of transcription from RNA polymerase II promoter; gene expression; mitotic cell cycle; regulation of cyclin-dependent protein kinase activity; cell cycle arrest; G2/M transition of mitotic cell cycle; negative regulation of epithelial cell proliferation; aging
Research Articles on CDKN2B	**1.** Single nucleotide polymorphisms in CDKN2B gene is associated with neoplasms
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