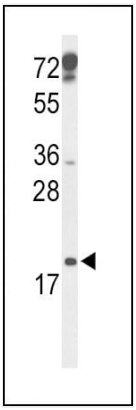
p19 Antibody – Rabbit Polyclonal

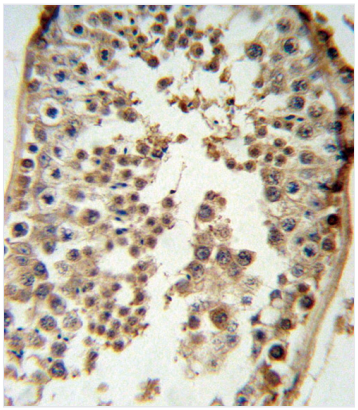
PRODUCT OVERVIEW

Product Name	p19, Polyclonal Antibody
Full Product Name	p19, NT (CDKN2D, Cyclin-dependent kinase 4 inhibitor D, p19-INK4d) (Biotin)
Product Gene Name	anti-p19 antibody
Product Synonym Gene Name	CDKN2D
Product Synonym Names	CDKN2D; Cyclin-dependent kinase 4 inhibitor D; p19-INK4d
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
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	17,700 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (10677138..10679655, complement). Location: 19p13
OMIM	600927
3D Structure	ModBase 3D Structure for P55273
Immunogen	p19 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 22~51 amino acids from the N-terminal region of human p19.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-p19 antibody	Antibodies; Protein Kinase Inhibitors
Applications Tested/Suitable for anti-p19 antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-p19 antibody	FC/FACS: 1:10-50 ELISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-p19 antibody	p19 is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been shown to form a stable complex 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. The abundance of the transcript of this gene was found to oscillate in a cell-cycle dependent manner with the lowest expression at mid G1 and a maximal expression during S phase. The negative regulation of the cell cycle involved in this protein was shown to participate in repressing neuronal proliferation, as well as spermatogenesis.

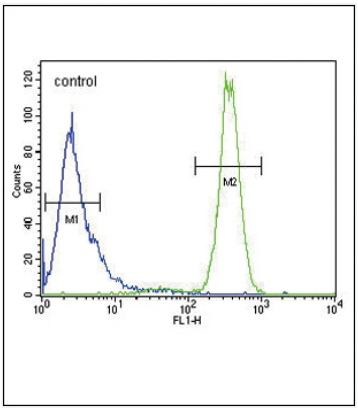
Product References and Citations for anti-p19 antibody	Cunningham, J.M., et al. Br. J. Cancer 101(8):1461-1468(2009). Zhang, W., et al. Acta Biochim. Biophys. Sin. (Shanghai) 41(5):414-428(2009). Agarwal, S.K., et al. J. Clin. Endocrinol. Metab. 94(5):1826-1834(2009). Goode, E.L., et al. Cancer Epidemiol. Biomarkers Prev. 18(3):935-944(2009). Mavaddat, N., et al. Cancer Epidemiol. Biomarkers Prev. 18(1):255-259(2009).
Other Notes	Small volumes of anti-p19 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 p19 purchase	MBS6330078 is an antibody targeting p19. Also known as p19, NT (CDKN2D, Cyclin-dependent kinase 4 inhibitor D, p19-INK4d) (Biotin). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-p19 antibody
Western blot analysis of p19 Antibody (N-term) in mouse testis tissue lysates (35ug/lane). p19 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-p19 antibody
p19 Antibody (N-term) IHC analysis in formalin fixed and paraffin embedded testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the p19 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-p19 antibody
p19 Antibody (N-term) flow cytometric analysis of Hela 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 p19. It may not necessarily be applicable to this product.

NCBI GI #	4502753
NCBI GeneID	1032
NCBI Accession #	NP_001791.1
UniProt Primary Accession #	P55273
UniProt Secondary Accession #	Q13102; Q6FGE9
UniProt Related Accession #	P55273

GenBank Nucleotide #	NM_001800.3
NCBI Official Full Name	cyclin-dependent kinase 4 inhibitor D
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)
NCBI Official Symbol	CDKN2D
NCBI Official Synonym Symbols	p19; INK4D; p19-INK4D
UniProt Protein Name	Cyclin-dependent kinase 4 inhibitor D
UniProt Synonym Protein Names	p19-INK4d
Protein Family	Protein
UniProt Gene Name	CDKN2D
UniProt Entry Name	CDN2D_HUMAN
NCBI Protein Information	cyclin-dependent kinase 4 inhibitor D; CDK inhibitor p19INK4d; inhibitor of cyclin-dependent kinase 4d; cyclin-dependent kinase 4 inhibitor D p19; cell cycle inhibitor, Nur77 associating protein
NCBI Summary for p19	The protein encoded by this gene is a member of the INK4 family of cyclin-dependent kinase inhibitors. This protein has been shown to form a stable complex 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. The abundance of the transcript of this gene was found to oscillate in a cell-cycle dependent manner with the lowest expression at mid G1 and a maximal expression during S phase. The negative regulation of the cell cycle involved in this protein was shown to participate in repressing neuronal proliferation, as well as spermatogenesis. Two alternatively spliced variants of this gene, which encode an identical protein, have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for p19	CDKN2D: Interacts strongly with CDK4 and CDK6 and inhibits them. Belongs to the CDKN2 cyclin-dependent kinase inhibitor family. Protein type: Tumor suppressor; Inhibitor; Cell cycle regulation Chromosomal Location of Human Ortholog: 19p13 Cellular Component: cytoplasm; nucleus; cytosol Molecular Function: cyclin-dependent protein kinase inhibitor activity; protein binding; protein kinase binding Biological Process: response to retinoic acid; negative regulation of caspase activity; negative regulation of cell proliferation; DNA synthesis during DNA repair; response to vitamin D; sensory perception of sound; autophagic cell death; 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; response to UV
Research Articles on p19	**1.** Up-regulation of CDKN2D during in-vitro passages of human amniotic fluid-derived mesenchymal stromal cells may indicate the begging of early senescence process in a p53-independent mechanism.
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