

Rabbit anti-Human p16 Polyclonal Antibody | anti-p16 antibody

p16 (C20) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13850	Rabbit	Human	Western Blot, Immunoprecipitation, Immunohistochemistry

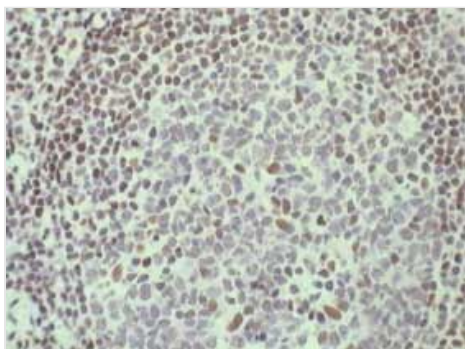
PRODUCT SYNONYMS

p16; Polyclonal Antibody; p16 (C20) Antibody; anti-p16 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	p16(C20) reacts with p16 of human origin by Western Blotting, Immunoprecipitation, and Immunohistochemistry. Western Blotting starting dilution: 1:200.
Form/Format	200 ug/ml of affinity purified rabbit IgG, p16 (C20) DB018, in 1ml PBS containing 0.1 % sodium azide and 0.2% gelatin.
Sequence Length	67
Applicable Applications for anti-p16 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry)
Application Notes	p16(C20) DB018 reacts with p16 of human origin by western blotting, immunoprecipitation, and immunohistochemistry. Western blotting starting dilution: 1:200.
Origin	p16 (C20) is provided as an affinity purified rabbit polyclonal antibody, raised against a peptide mapping to the carboxy terminus of human p16.
Product Details	Each vial contains 200ug/ml of affinity purified rabbit IgG, p16 (C20), in 1 ml PBS containing 0.1% sodium azide and 0.2% gelatin.
Immunogen	Synthetic peptide mapping to the carboxy terminus of human p16.
Competition Studies	A blocking peptide is also available for use in competiton studies. Each vial containing 100 ug of peptide in 0.5ml PBS with 0.1% sodium azide and 100 ug BSA.
Preparation and Storage	Store this product at 4 degree C, do not freeze. The product is stable for one year from the date of shipment.

IMAGES



IHC (Immunohistochemistry)

ADDITIONAL INFORMATION

Related Product Information for anti-p16 antibody	The progression through the cell cycle is regulated by cyclins and their cognate Cdk's by promoting cell cycle transitions (1,2,3). This orderly progression can be inhibited by a family of proteins known as CDK inhibitors (CDIs) that bind to cyclin/Cdk complexes and halt cell division (3). p21 (also designated WAF1/Cip1) is one has been shown to inhibit the activity of each member of the cyclin/Cdk family and over expression of this protein inhibits the proliferation of mammalian cells (5). The expression of p21 is inducible by a wide range of stress stimuli and its transcription can be enhanced by p53 (6). Another member of the CDIs is p27 (also known as Kip1), which also sees up regulation in response to antimitogenic stimuli (7). The increased protein expression of p27 results in cellular arrest by binding to cyclin/Cdk complexes, like cyclin D1/Cdk4 (4,8). An additional CDI has been found to bind Cdk4 and Cdk6, p16 (INK4A), and when such complexes are formed, the progression of the cell cycle is halted (9). It has become increasingly clear that p16 is a very important tumor suppressor gene whose frequent loss occurs early in many human cancers. p16 is a major target in carcinogenesis that is rivaled in frequency only by p53 (10).
References	1.) Bihani T, Mason DX, Jackson TJ, Chen SC, Boettner B, Lin AW. 2004. Differential oncogenic Ras signaling and senescence in tumor cells. Cell Cycle 3(9):1201-7. 2.) Weebadda WK, Jackson TJ, Lin AW. 2005. Expression of p16(INK4A) variants in senescent human fibroblasts independent of protein phosphorylation. J Cell Biochem. Apr 15;94(6):1135-47.3.) Mason DX, Jackson TJ, Lin AW. Molecular signature of oncogenic ras-induced senescence. Oncogene. 2004 Dec 9;23(57):9238-46.4.) Bihani T, Chicas A, Lo CP, Lin AW. 2007. Dissecting the senescence-like program in tumor cells activated by Ras signaling. J Biol Chem. Jan 26;282(4):2666-75.5.) Achour M, Jacq X, Rondé P, Alhosin M, Charlot C, Chataigneau T, Jeanblanc M, Macaluso M, Giordano A, Hughes AD, Schini-Kerth VB, Bronner C. 2007. The interaction of the SRA domain of ICBP90 with a novel domain of DNMT1 is involved in the regulation of VEGF gene expression. Oncogene. Oct 15. 1. Harper JW, Adami GR, Wei N, Keyomarsi K, Elledge SJ. 1993. The p21 Cdk-interacting protein Cip1 is a potent inhibitor of G1 cyclin-dependent kinases. Cell 75(4):805-816.2. Gartel AL, Serfas MS, Tyner AL. 1996. p21 - - negative regulator of the cell cycle. Proc Soc Exp Biol Med 213(2):138-149.3. Moller MB. 2000. p27 in cell cycle control and cancer. Leuk Lymphoma 39(1-2):19-27.4. Sgambato A, Cittadini A, Faraglia B, Weinstein IB. 2000. Multiple functions of p27(Kip1) and its alterations in tumor cells: a review. J Cell Physiol 183(1):18-27.5. Xiong Y, Hannon GJ, Zhang H, Casso D, Kobayashi R, Beach D. 1993. p21 is a universal inhibitor of cyclin kinases. Nature 366(6456):634.6. Gorospe M, Wang X, Holbrook NJ. 1999. Functional role of p21 during the cellular response to stress. Gene Expr 7(4-6):377-385.7. Slingerland J, Pagano M. 2000. Regulation of the cdk inhibitor p27 and its deregulation in cancer. J Cell Physiol 183(1):10-17.8. Toyoshima H, Hunter T. 1994. p27, a novel inhibitor of G1 cyclin-Cdk protein kinase activity, is related to p21. Cell 78(1):67-74.9. Shapiro GI, Edwards CD, Rollins BJ. 2000. The physiology of p16(INK4A)-mediated G1 proliferative arrest. Cell Biochem Biophys 33(2):189-197.10. Liggett WH Jr, Sidransky D. 1998. Role of the p16 tumor suppressor gene in cancer. J Clin Oncol 16(3):1197-1206.

NCBI AND UNIPROT INFORMATION

NCBI GI #	89355819
NCBI GeneID	1029
UniProt Accession #	Q208B5; P42771; Q8N726
NCBI Official Full Name	p16, partial
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 2A
NCBI Official Symbol	CDKN2A
NCBI Official Synonym Symbols	ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4I; CDKN2; INK4A; MTS-1; P14ARF; P19ARF; P16INK4; P16INK4A; P16-INK4A
NCBI Protein Information	cyclin-dependent kinase inhibitor 2A; CDK4 inhibitor p16-INK4; CDKN2A; alternative reading frame; cell cycle negative regulator beta; cyclin-dependent kinase 4 inhibitor A; cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4); multiple tumor suppressor 1
UniProt Protein Name	P16
UniProt Gene Name	CDKN2A
UniProt Entry Name	Q208B5_HUMAN

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AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

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