



p16-INK4a (Phospho-Ser152) rabbit pAb

Cat#: orb767331 (Manual)

For research use only. Not intended for diagnostic use.

Product Name	p16-INK4a (Phospho-Ser152) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human p16-INK4a around the phosphorylation site of Ser152. AA range:107-156
Specificity	Phospho-p16 (S326) Polyclonal Antibody detects endogenous levels of p16 protein only when phosphorylated at S326.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Cyclin-dependent kinase inhibitor 2A isoforms 1/2/3
Gene Name	CDKN2A
Cellular localization	Cytoplasm . Nucleus .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity- chromatography using epitope-specific immunogen.
Clonality	Polyclonal



Concentration	1 mg/ml
Observed band	20kD
Human Gene ID	1029
Human Swiss-Prot Number	P42771
Alternative Names	CDKN2A; CDKN2; MTS1; Cyclin-dependent kinase inhibitor 2A; isoforms 1/2/3; Cyclin-dependent kinase 4 inhibitor A; CDK4I; Multiple tumor suppressor 1; MTS-1; p16-INK4a; p16-INK4; p16INK4A
Background	alternative products: Isoform 1 and isoform 4 arise due to the use of two alternative first exons joined to a common exon 2 at the same acceptor site but in different reading frames, resulting in two completely different isoforms, disease: Defects in CDKN2A are a cause of Li-Fraumeni syndrome (LFS) [MIM:151623]. LFS is a highly penetrant familial cancer phenotype usually associated with inherited mutations in TP53, disease: Defects in CDKN2A are involved in tumor formation in a wide range of tissues, disease: Defects in CDKN2A are the cause of cutaneous malignant melanoma 2 (CMM2) [MIM:155601]. Inheritance is autosomal dominant. Malignant melanoma is a malignant neoplasm of melanocytes, arising de novo or from a preexisting benign nevus, which occurs most often in the skin but also may involve other sites, disease: Defects in CDKN2A are the cause of familial atypical multiple mole melanoma-pancreatic carcinoma syndrome (FAMMMPC) [MIM:606719], disease: Defects in CDKN2A are the cause of melanoma-astrocytoma syndrome [MIM:155755]. The melanoma- astrocytoma syndrome is characterized by a dual predisposition to melanoma and neural system tumors, commonly astrocytoma, function: Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein., function: Capable of inducing cell cycle arrest in G1 and G2 phases. Acts as a tumor suppressor. Binds to MDM2 and blocks its nucleocytoplasmic shuttling by sequestering it in the nucleolus. This inhibits the oncogenic action of MDM2 by blocking MDM2-induced degradation of p53 and enhancing p53-dependent transactivation and apoptosis. Also induces G2 arrest and apoptosis in a p53- independent manner by preventing the activation of cyclin B1/CDC2 complexes. Binds to BCL6 and down-regulates BCL6-induced transcriptional repression. Binds to E2F1 and MYC and blocks their transcriptional repression. Binds to E2F1 and PYC and blocks thei



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skeletal muscle. Isoform 3 is pancreas-specific.,



Western Blot analysis of JK cells using Phospho-p16 (S326) Polyclonal Antibody diluted at 1:500

Western Blot analysis of 22RV1 HELA cells using Phospho-p16 (S326) Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using p16-INK4a (Phospho-Ser152) Antibody. The picture on the right is blocked with the phospho peptide.









Western blot analysis of lysates from HeLa cells treated with EPO 20U/ml 15', using p16-INK4a (Phospho-Ser152) Antibody. The lane on the right is blocked with the phospho peptide.