



Magic™ Anti-CDKN1A monoclonal antibody, clone TX119 (DMAB5049MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	MAb to CDKN1A; Mouse Monoclonal Antibody to Human p21WAF1/Cip1
Specificity	In Western blotting of cell extract from the human breast carcinoma cell line MCF-7 with p53-dependent induction of p21WAF1/Cip1, the antibody labels a specific band of 21 kDa corresponding to p21WAF1/Cip1. In extract of MCF-7 cells with no induction of p21WAF1/Cip1, no labelling was observed with the antibody. In immunoprecipitates of cell extract from the human osteosarcoma cell line SAOS-2 transfected with a plasmid expressing p21WAF1/Cip1, the antibody labels a single band corresponding to p21WAF1/Cip1. The corresponding immunoprecipitates from non-transfected SAOS-2 cells were not labelled by the antibody. The epitope recognized by the antibody is localized to the last 20 amino acids of p21WAF1/Cip1. As demonstrated by Western blotting, the antibody labels the p21WAF1/Cip1 - equivalent protein in mouse.
Immunogen	Purified glutathione S-transferase (GST)-p21WAF1/Cip1 fusion protein.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	TX119
Conjugate	Unconjugated
Format	Monoclonal mouse antibody provided in liquid form as cell culture supernatant dialysed against 0.05 mol/L Tris/HCl, pH 7.2, and containing 15 mmol/L NaN ₃ .
Size	200 µl

Preservative	15mmol/L Sodium Azide
Storage	Store at 2-8°C. Do not use after expiration date stamped on vial. If reagents are stored under any conditions other than those specified, the user must verify the conditions. There are no obvious signs to indicate instability of this product. Therefore, positive and negative controls should be run simultaneously with patient specimens. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the antibody is suspected, contact our Technical Services.

GENE INFORMATION

Gene Name	CDKN1A cyclin-dependent kinase inhibitor 1A(p21, Cip1) [Homo sapiens]
Official Symbol	CDKN1A
Synonyms	CDKN1A; cyclin-dependent kinase inhibitor 1A (p21, Cip1); P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1; OTTHUMP00000016297; OTTHUMP00000016298; DNA synthesis inhibitor; CDK-interacting protein 1; wild-type p53-activated fragment 1; melanoma differentiation associated protein 6
Entrez Gene ID	1026
Protein Refseq	NP_000380
UniProt ID	A0A024RCX5
Chromosome Location	6p21.2
Pathway	AMPK signaling, organism-specific biosystem; Cell cycle, organism-specific biosystem; DNA Replication, organism-specific biosystem; ErbB signaling pathway, conserved biosystem; Glioma, organism-specific biosystem; Prostate cancer, organism-specific biosystem; Signaling events mediated by HDAC Class III, organism-specific biosystem; p53 signaling pathway, conserved biosystem
Function	cyclin binding; cyclin-dependent protein kinase inhibitor activity; metal ion binding; protein binding; protein complex binding; protein kinase inhibitor activity