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CDKN1B Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CDKN1B.
Catalog # AT1481a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P46527
Other Accession	BC001971
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	4B4-E6
Calculated MW	22073

Additional Information

Gene ID	1027
Other Names	Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1, CDKN1B, KIP1
Target/Specificity	CDKN1B (AAH01971, 1 a.a. ~ 198 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CDKN1B Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

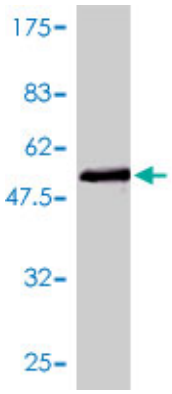
This gene encodes a cyclin-dependent kinase inhibitor, which shares a limited similarity with CDK inhibitor CDKN1A/p21. The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state.

References

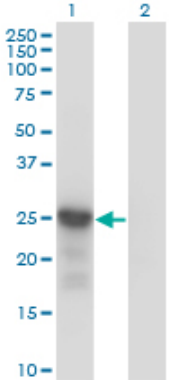
JAB1 expression is associated with inverse expression of p27(kip1) in hepatocellular carcinoma. Qin J, et al.

Hepatogastroenterology, 2010 May-Jun. PMID 20698225.CCND1 and CDKN1B polymorphisms and risk of breast cancer. Canbay E, et al. Anticancer Res, 2010 Jul. PMID 20683061.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Analysis of cyclin-dependent kinase inhibitor 1B mutation in Han Chinese women with premature ovarian failure. Wang B, et al. Reprod Biomed Online, 2010 Aug. PMID 20615757.The MENX syndrome and p27: relationships with multiple endocrine neoplasia. Molatore S, et al. Prog Brain Res, 2010. PMID 20541671.

Images

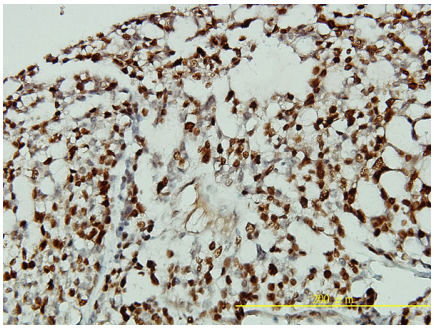


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (47.52 KDa) .

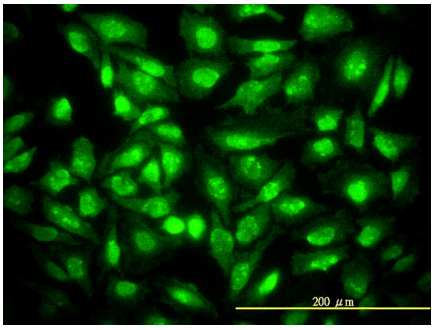


Western Blot analysis of CDKN1B expression in transfected 293T cell line by CDKN1B monoclonal antibody (M01), clone 4B4-E6.

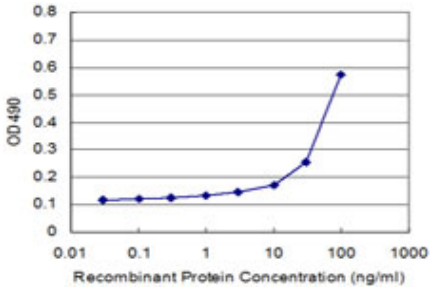
Lane 1: CDKN1B transfected lysate(22.1 KDa).
Lane 2: Non-transfected lysate.



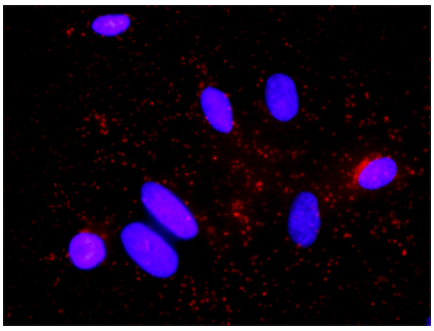
Immunoperoxidase of monoclonal antibody to CDKN1B on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma tissue. [antibody concentration 5 ug/ml]



Immunofluorescence of monoclonal antibody to CDKN1B on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged CDKN1B is 10 ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between AKT1 and CDKN1B HeLa cells were stained with anti-AKT1 rabbit purified polyclonal 1:1200 and anti-CDKN1B mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.