

ARG62960 anti-CDK1 / CDC2 antibody [POH-1]

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [POH-1] recognizes CDK1 / CDC2
Tested Reactivity	Hu, Bov, NHuPrm
Species Does Not React With	Ms, Rat, Dm, Xenopus laevis
Tested Application	ICC/IF, IHC-P, IP, WB
Specificity	The clone POH-1 specifically detects Cdk1 (p34Cdc2). Staining of Cdk1 reflects the proliferating potential of respective tissue.
Host	Mouse
Clonality	Monoclonal
Clone	POH-1
Isotype	IgG2a
Target Name	CDK1 / CDC2
Species	Human
Immunogen	Bacterially expressed full-length human Cdk1 protein
Conjugation	Un-conjugated
Alternate Names	CDK1; Cyclin Dependent Kinase 1; CDC28A; CDC2; Cell Division Cycle 2, G1 To S And G2 To M; Cell Division Control Protein 2 Homolog; Cell Division Protein Kinase 1; Cyclin-Dependent Kinase 1; P34 Protein Kinase; P34CDC2; Cell Cycle Controller CDC2; EC 2.7.11.22; EC 2.7.11.23; CDKN1

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-P	10 µg/ml
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	IHC-P: Thymus tissue.	

Properties

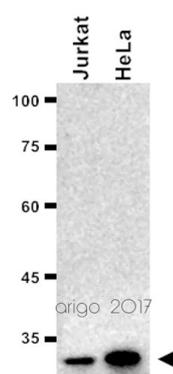
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)

Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

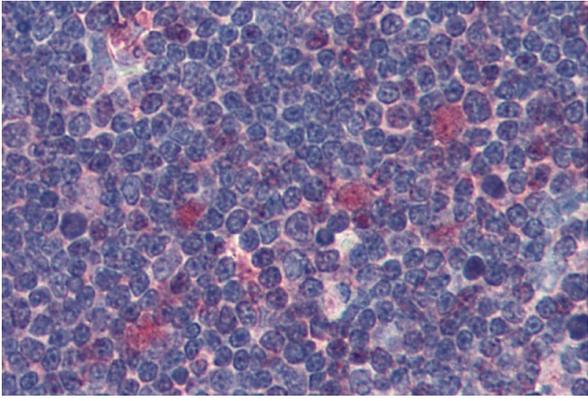
Database links	GeneID: 281061 Bovine GeneID: 983 Human Swiss-port # P06493 Human Swiss-port # P48734 Bovine
Gene Symbol	CDK1
Gene Full Name	cyclin-dependent kinase 1
Background	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2023]
Function	Plays a key role in the control of the eukaryotic cell cycle by modulating the centrosome cycle as well as mitotic onset; promotes G2-M transition via association with multiple interphase cyclins. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Gene Regulation antibody; Neuroscience antibody
Calculated Mw	34 kDa
PTM	Acetylation, Isopeptide bond, Phosphoprotein, Ubl conjugation. [UniProt]
Cellular Localization	Cytoplasm, Cytoskeleton, Mitochondrion, Nucleus. [UniProt]

Images



ARG62960 anti-CDK1 / CDC2 antibody [POH-1] WB image

Western blot: 20 µg of Jurkat and HeLa cell lysates stained with ARG62960 anti-CDK1 / CDC2 antibody [POH-1] at 1:1000 dilution.



ARG62960 anti-CDK1 / CDC2 antibody [POH-1] IHC-P image

Immunohistochemistry: Human thymus (paraffin sections) stained with ARG62960 anti-CDK1 / CDC2 antibody [POH-1].