

Datasheet for ABIN94446

anti-CDK1 antibody

3 Images

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Overview

Quantity:	0.1 mg
Target:	CDK1
Reactivity:	Human, Cow, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CDK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Bacterially expressed full-length human Cdk1 protein
Clone:	POH-1
Isotype:	IgG2a
Specificity:	The antibody POH-1 specifically detects Cdk1 (p34Cdc2, an intracellular antigen). Staining of Cdk1 reflects the proliferating potential of respective tissue.
No Cross-Reactivity:	Drosophila melanogaster, Mouse, Rat, Xenopus laevis
Cross-Reactivity (Details):	Human, Non-Human Primates, Bovine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CDK1
Alternative Name:	Cdk1 (CDK1 Products)
Background:	<p>Cyclin dependent kinase 1,Cdk1 (cyclin-dependent kinase 1), also known as p34Cdc2 (cell division control protein kinase 2) depends on cyclin A and B and is triggered by a positive feedback loop at the end of G2 phase, which is the key event that initiates mitotic entry.</p> <p>Destruction of cyclin B during metaphase results in inactivation of Cdk1, allowing mitotic exit and cell division. Cdk1 also contributes to the control of DNA replication. Cdk1 can be inhibited by several transcriptional targets of p53, such as p21WAF, p34Cdc2, p34 protein kinase, CDK1, CDC2, CDC28A</p>
Gene ID:	983
UniProt:	B7Z3D6
Pathways:	Cell Division Cycle , Fc-epsilon Receptor Signaling Pathway , Neurotrophin Signaling Pathway , Activation of Innate immune Response , Mitotic G1-G1/S Phases , DNA Replication , M Phase , Toll-Like Receptors Cascades , Synthesis of DNA

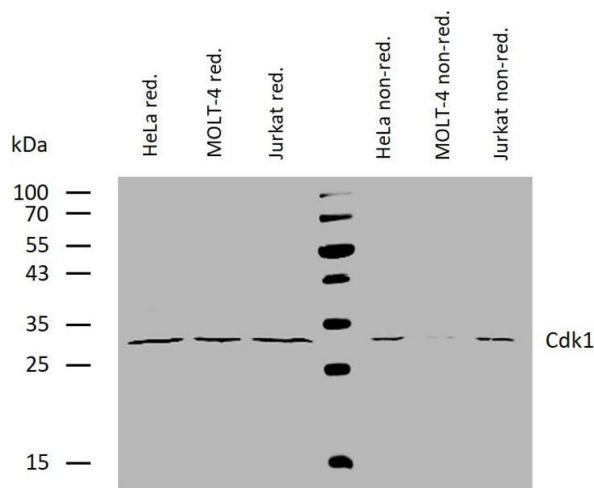
Application Details

Application Notes:	<p>Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/mL, positive tissue: thymus.</p> <p>Western blotting: Recommended dilution: 1-2 µg/mL.</p>
Restrictions:	For Research Use only

Handling

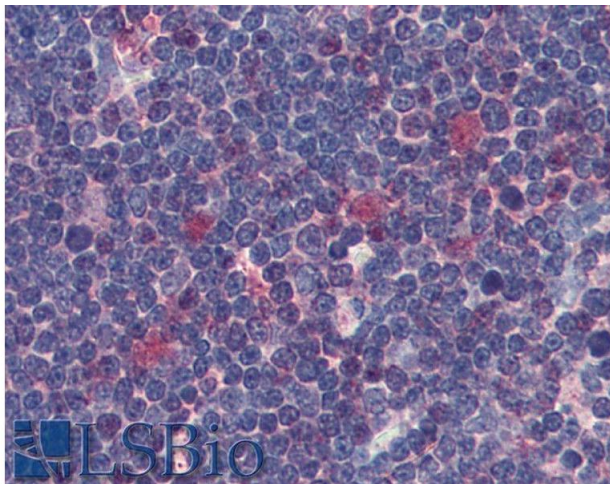
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Product cited in: Lukás, Draetta, Bartek: "Distinct forms of human CDC2 identified by novel monoclonal antibodies." in: **European journal of biochemistry / FEBS**, Vol. 207, Issue 1, pp. 169-76, (1992) ([PubMed](#)).



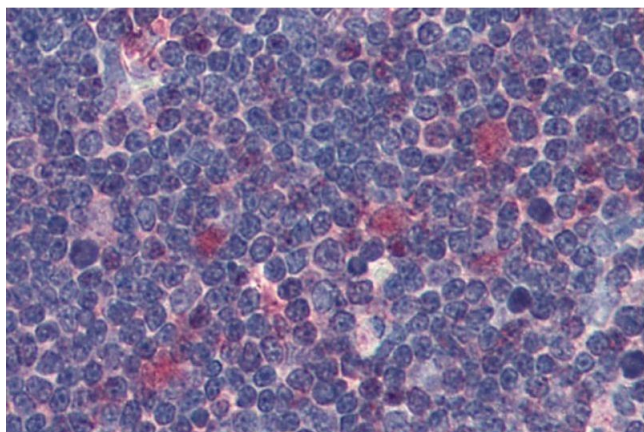
Western Blotting

Image 1. Western blotting analysis of human Cdk1 using mouse monoclonal antibody POH-1 on lysates of HeLa, MOLT-4, and Jurkat cells under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 μ g/mL of mouse anti-Cdk1 monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for Cdk1 protein at approximately 32 kDa.



Immunohistochemistry

Image 2. Immunohistochemistry staining of human thymus (paraffin sections) using anti-Cdk1 (clone POH-1). Commercially tested by LifeSpan BioSciences.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry staining of human thymus (paraffin sections) using anti-Cdk1 (clone POH-1).