antibodies

Datasheet for ABIN669891 anti-CDK1 antibody (AA 201-297)

3 Images

7 Publications



Overview

| Quantity: | 100 µL |
|----------------------|---|
| Target: | CDK1 |
| Binding Specificity: | AA 201-297 |
| Reactivity: | Human, Mouse, Rat, Dog, Sheep |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CDK1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

| Immunogen: | KLH conjugated synthetic peptide derived from mouse CDK1 |
|-----------------------|--|
| Isotype: | lgG |
| Cross-Reactivity: | Dog, Human, Mouse, Rat, Sheep |
| Predicted Reactivity: | Cow |
| Purification: | Purified by Protein A. |
| Target Details | |
| Target: | CDK1 |

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| Target Details | |
|---------------------|---|
| Alternative Name: | CDK1 (CDK1 Products) |
| Background: | Synonyms: Cdc2, Cdc2a, p34, Cyclin-dependent kinase 1, CDK1, Cell division control protein 2 |
| | homolog, Cell division protein kinase 1, p34 protein kinase, Cdkn1 |
| | Background: The cell division control protein cdc2, also known as cyclin dependent kinase 1 |
| | (Cdk1) or p34/cdk1, plays a key role in the control of the eukaryotic cell cycle, where it is |
| | required for entry into S phase and mitosis. Cdc2 exists as a complex with both cyclin A and |
| | cyclin B. The best characterized of these associations is the Cdc2 p34 cyclin B complex, which |
| | is required for the G2 to M phase transition. Activation of Cdc2 is controlled at several steps |
| | including cyclin binding and phosphorylation of threonine 161. However, the critical regulatory |
| | step in activating cdc2 during progression into mitosis appears to be dephosphorylation of |
| | Tyr15 and Tyr14. Phosphorylation at Tyr15 and inhibition of Cdc2 is carried out by WEE1 and |
| | MIK protein kinases while Tyr15 dephosphorylation and activation of Cdc2 is carried out by the |
| | cdc25 phosphatase. The isoform CDC2deltaT is found in breast cancer tissues. Furthermore, |
| | cdc2/Cdk1 is a key mediator of neuronal cell death in brain development and degeneration. |
| Gene ID: | 12534 |
| UniProt: | P11440 |
| 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: | WB 1:300-5000 |
| | ELISA 1:500-1000 |
| | FCM 1:20-100 |
| | IHC-P 1:200-400 |
| | IHC-F 1:100-500 |
| | IF(IHC-P) 1:50-200 |
| | IF(IHC-F) 1:50-200 |
| | IF(ICC) 1:50-200 |
| | |

Handling

Format:

Liquid

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| Concentration: | 1 μg/μL |
|--------------------|--|
| Buffer: | 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |
| Publications | |

Publications

Product cited in:

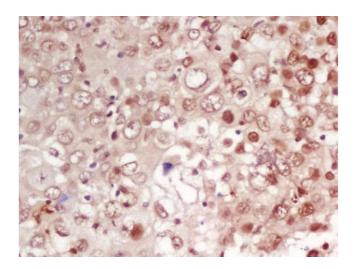
Ghate, Das, Chaudhuri, Panja, Mandal: "Sundew plant, a potential source of anti-inflammatory agents, selectively induces G2/M arrest and apoptosis in MCF-7 cells through upregulation of p53 and Bax/Bcl-2 ratio." in: **Cell death discovery**, Vol. 2, pp. 15062, (2016) (PubMed).

He, Zhang, Gan, Xu, Tang: "Expression of hyperpolarization-activated cyclic nucleotide-gated channel isoforms in a canine model of atrial fibrillation." in: **Experimental and therapeutic medicine**, Vol. 12, Issue 1, pp. 433-436, (2016) (PubMed).

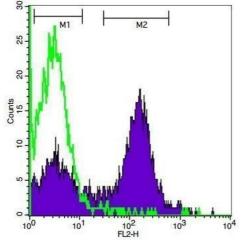
Dai, Ye, Peng, Zhou, Bai, Xiao, Ma, Zhou, Tang, Yao, Cao, Qin, Liu, Tan: "Aptamer TY04 inhibits the growth of multiple myeloma cells via cell cycle arrest." in: **Tumour biology**, Vol. 35, Issue 8, pp. 7561-8, (2014) (PubMed).

Haolong, Du, Hongchao, Yang, Wei, Hua, Wenliang, Lei, Po: "Enterovirus 71 VP1 activates calmodulin-dependent protein kinase II and results in the rearrangement of vimentin in human astrocyte cells." in: **PLoS ONE**, Vol. 8, Issue 9, pp. e73900, (2013) (PubMed).

There are more publications referencing this product on: Product page



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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin embedded human laryngeal carcinoma labeled with Rabbit Anti-CDK1 Polyclonal Antibody, Unconjugated (ABIN669891) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Flow Cytometry

Image 2. MCF-7 cells probed with Rabbit Anti-CDK1 Polyclonal Antibody.

Flow Cytometry

Image 3. Mouse spleen cells probed with Rabbit Anti-CDK1 Polyclonal Antibody, PE Conjugated at 1:50 for 30 minutes

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