

DATASHEET

CDK5 Mouse Monoclonal Antibody(C3318)

CAT. NO. AMA02930

KEY FEATURES

| | | | |
|---------------|---|---------------|--------------|
| Target | CDK5 | Source / Host | Mouse |
| Reactivity | Human, Mouse, Rat, Monkey | Clonality | Monoclonal |
| Applications | WB, IF/ICC | Conjugation | Unconjugated |
| Form / Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. | Storage | at-20°C |

BACKGROUND

Proline-directed serine/threonine-protein kinase essential for neuronal cell cycle arrest and differentiation and may be involved in apoptotic cell death in neuronal diseases by triggering abortive cell cycle re-entry. Interacts with D1 and D3-type G1 cyclins. Phosphorylates SRC, NOS3, VIM/vimentin, p35/CDK5R1, MEF2A, SIPA1L1, SH3GLB1, PXN, PAK1, MCAM/MUC18, SEPT5, SYN1, DNMT1, AMPH, SYNJ1, CDK16, RAC1, RHOA, CDC42, TONEBP/NFAT5, MAPT/TAU, MAP1B, histone H1, p53/TP53, HDAC1, APEX1, PTK2/FAK1, huntingtin/HTT, ATM, MAP2, NEFH and NEFM.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|--------|----------------|
| WB | 1:500 - 1:1000 |
| IF/ICC | 1:50 - 1:100 |

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

| | |
|-------------------|---|
| Description | Mouse monoclonal antibody to CDK5 |
| Specificity | Recognizes endogenous levels of CDK5 protein. |
| Antibody Type | Primary antibody |
| Immunogen | Purified recombinant human CDK5(N-terminus) protein fragments expressed in E.coli. |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Molecular Weight | Predicted: 33 kD; Observed: 36 kD |
| Form/Buffer | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. |
| Alternative Names | CDKN5; Cyclin-dependent kinase 5; Cell division protein kinase 5; Serine/threonine-protein kinase PSSALRE; Tau protein kinase II catalytic subunit; TPKII catalytic subunit |
| Gene Symbol | CDK5 |
| Entrez Gene | 1020(Human); 12568(Mouse); 140908(Rat) |
| SwissProt | Q00535(Human); P49615(Mouse); Q03114(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

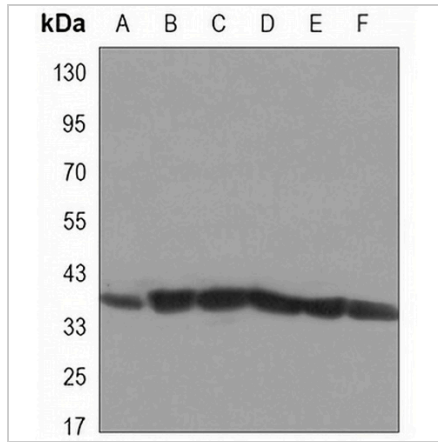
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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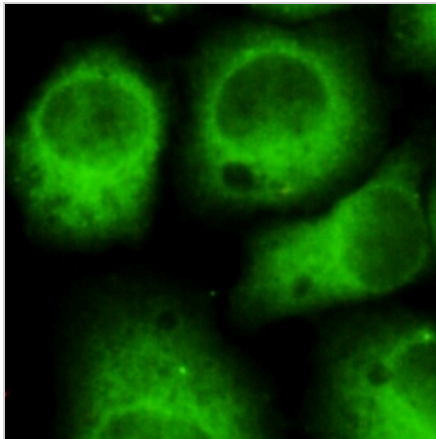
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Western blot analysis of CDK5 expression in NIH3T3 (A), HeLa (B), PC12 (C), COS7 (D), Jurkat (E), K562 (F) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 36 kD)



Immunofluorescent analysis of CDK5 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.