

Datasheet for ABIN872301
anti-CDK5 antibody (pTyr15)[Go to Product page](#)

1 Image

1 Publication

Overview

Quantity:	100 µL
Target:	CDK5
Binding Specificity:	pTyr15
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human CDK5 around the phosphorylation site of Tyr15
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	CDK5
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Target Details

Alternative Name:	CDK5 (CDK5 Products)
Background:	<p>Synonyms: Cdk5 phospho Y15, p-Cdk5Y15, Cdk 5, Cell division protein kinase 5, Crk6, Cyclin dependent kinase 5, Protein kinase CDK5 splicing, PSSALRE, Serine threonine protein kinase PSSALRE, Tau protein kinase II catalytic subunit, TPKII catalytic subunit, CDK5_HUMAN.</p> <p>Background: CDK5 (Cyclin Dependent Kinase 5) is serine/threonine kinase involved in synaptic regulation and neuronal development, phosphorylates synaptic protein Pctaire1, regulates acetylcholine receptor expression. CDK5 is a member of the cyclindependent kinase family of serine/threonine kinases. It is present in numerous mammalian tissues including kidney, testes, and ovary. Its activity is detected almost exclusively in brain extracts. Neuronal and muscle cells contain the highest amount of this protein. Similar to other Cdks, monomeric Cdk5 displays no enzymatic activity, but Cdk5 is not activated by cyclins. Instead, the p35 protein, which is expressed solely in the brain, activates Cdk5. Cdk5 interacts with D1 and D3 type G1 cyclins and can phosphorylate histone H1, TAU, MAP2 and NF-H and NF-M. Cdk5 activity is involved in terminal differentiation of neurons and muscle cells.</p>
Gene ID:	1020
Pathways:	Cell Division Cycle , Regulation of Muscle Cell Differentiation , Synaptic Membrane , Regulation of Cell Size , Skeletal Muscle Fiber Development , Synaptic Vesicle Exocytosis

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 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
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

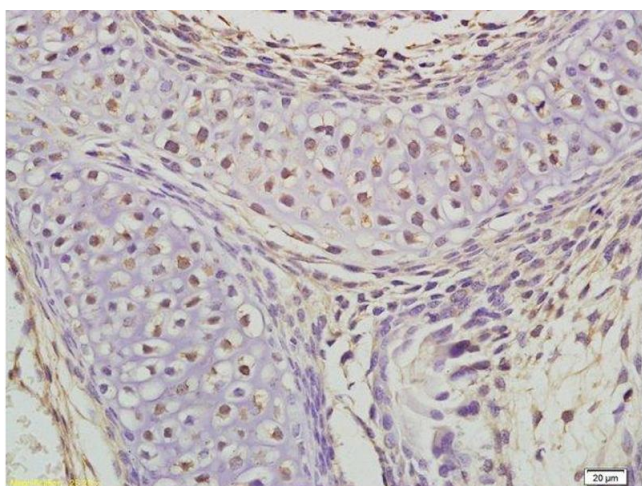
Handling

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

Product cited in:	Yin, Qi, Ren, Wang, Jiang, Feng, Cui: "Roscovitine treatment caused impairment of fertilizing ability in mice." in: Toxicology letters , Vol. 237, Issue 3, pp. 200-9, (2015) (PubMed).
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Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse embryo tissue labeled with Rabbit Anti phospho-CDK5(Tyr15) Polyclonal Antibody, Unconjugated (ABIN872301) at 1:200 followed by conjugation to the secondary antibody and DAB staining