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# Cdk5 (phospho Tyr15) Polyclonal Antibody

Isotype   IgG     Reactivity   Human;Mouse;Rat;Monkey	Catalog No	YP-Ab-16606
Applications WB;HC;IF;ELISA  Gene Name CDK5  Protein Name Cyclin-dependent kinase 5  Immunogen The antiserum was produced against synthesized peptide derived from human CDK5 around the phosphorylation site of Tyr15. AA range:1-50  Specificity Phospho-Cdk5 (Y15) Polyclonal Antibody detects endogenous levels of Cdk5 protein only when phosphorylated at Y15.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Polyclonal, Rabbit,IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB: 1/500 - 1/2000, IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms CDK5; CDKN5; Cyclin-dependent kinase 5; Cell division protein kinase 5; Serine/threonine-protein kinase PSSALRE; Tau protein kinase II catalytic subunit; TPKII catalytic subunit 33kD  Cell Pathway IIsoform 1): Cytoplasm . Nucleus . Cell membrane ; Peripheral membrane protein. Perikaryon. Cell projection, Iamellipodium . Cell projection, growth cone . Cell iunction, synapse . In axonal growth cone with extension to the peripheral Hamellipodia (By similarity). Under neurotoxic stress and neuronal injury conditions, CDK5R (p35) is cleaved by calpain to generate CDK5R1 (p25) in response to increased intracellular calcium. The elevated level of p25, when in complex with CDK5, leads to its subcellular membrane of undifferentiated and differentiated neuroblaston as well as its hyperactivation. Colocalizes with CDN5, leads to its subcellular membrane of undifferentiated and differentiated neuroblastone ells. Reversibly attach  Tissue Specificity [Isoform 1]: Upiquitously expressed (PubMed:17009320, PubMed:19693690). Accumulates in cortical neurons (at protein level) (PubMed:17009320) : [Isoform 2]: Expressed in the testis, skeletal muscle, colon, bone marrow and ovary.	Isotype	IgG
Gene Name         CDK5           Protein Name         Cyclin-dependent kinase 5           Immunogen         The antiserum was produced against synthesized peptide derived from human CDK5 around the phosphorylation site of Tyr15. AA range:1-50           Specificity         Phospho-Cdk5 (Y15) Polyclonal Antibody detects endogenous levels of Cdk5 protein only when phosphorylated at Y15.           Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Polyclonal, Rabbit, IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         CDK5; CDKN5; Cyclin-dependent kinase 5; Cell division protein kinase 5; Serine/threonine-protein kinase PSSALRE; Tau protein kinase II catalytic subunit; TPKII catalytic subunit           Observed Band         33kD           Cell Pathway         [Isoform 1]: Cytoplasm. Nucleus. Cell membrane; Peripheral membrane protein. Perikaryon. Cell projection, Ismellipodium. Cell projection, growth cone. Cell junction, synapse, postsynaptic density. Cell junction, synapse. In axonal growth cone with extension to the peripheral lamellipodia (By similarity). Under neurotoxic stress and neuronal injury conditions, CDK6R (p35) is cleaved	Reactivity	Human;Mouse;Rat;Monkey
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Formulation         Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.           Source         Polyclonal, Rabbit,IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         CDK5; CDKN5; Cyclin-dependent kinase 5; Cell division protein kinase 5; Serine/threonine-protein kinase PSSALRE; Tau protein kinase II catalytic subunit; TPKII catalytic subunit           Observed Band         33kD           Cell Pathway         [Isoform 1]: Cytoplasm . Nucleus . Cell membrane ; Peripheral membrane protein. Perikaryon. Cell projection, lamellipodium . Cell projection, growth cone . Cell junction, synapse . In axonal growth cone with extension to the peripheral lamellipodia (By similarity). Under neurotoxic stress and neuronal injury conditions, CDK5R (p35) is cleaved by calpain to generate CDK5R1 (p25) in response to increased intracellular radicium. The elevated level of p25, when in complex with CDK5, leads to its subcellular misallocation as well as its hyperactivation. Colocalizes with CTNND2 in the cell body of neuronal cells, and with CTNNB1 in the cell-cell contacts and plasma membrane of undifferentiated and differentiated neuroblastoma cells. Reversibly attach           Tissue Specificity         [Isoform 1]: Ubiquitously expressed (PubMed:17009320, PubMed:19693690). Accumulates in cortical	Immunogen	
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Can phosphorylate histone H1, tau, MAP2 and NF-H and NF-M. Also interacts with p35 which activates the kinase.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:In axonal growth cone with extension to the peripheral lamellipodia, subunit: Heterodimer of a catalytic subunit and a regulatory subunit (p35). Found in a trimolecular complex with CABLES1 and ABL1. Interacts with CABLES1 (By similarity). Interacts with AATK.,

#### Background

cyclin dependent kinase 5(CDK5) Homo sapiens This gene encodes a proline-directed serine/threonine kinase that is a member of the cyclin-dependent kinase family of proteins. Unlike other members of the family, the protein encoded by this gene does not directly control cell cycle regulation. Instead the protein, which is predominantly expressed at high levels in mammalian postmitotic central nervous system neurons, functions in diverse processes such as synaptic plasticity and neuronal migration through phosphorylation of proteins required for cytoskeletal organization, endocytosis and exocytosis, and apoptosis. In humans, an allelic variant of the gene that results in undetectable levels of the protein has been associated with lethal autosomal recessive lissencephaly-7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2015],

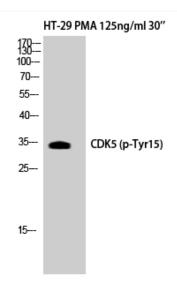
#### matters needing attention

Avoid repeated freezing and thawing!

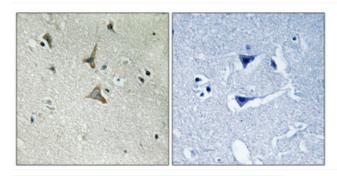
#### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

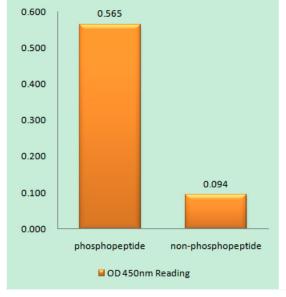
# **Products Images**



Western Blot analysis of HT29+PMA cells using Phospho-Cdk5 (Y15) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



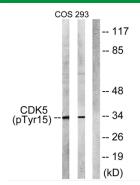
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CDK5 (Phospho-Tyr15) Antibody



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Western blot analysis of lysates from COS7 cells treated with EGF 200ng/ml 30' and 293 cells treated with H2O2 100u, 15mins, using CDK5 (Phospho-Tyr15) Antibody. The lane on the right is blocked with the phospho peptide.