



Anti-CDK5 polyclonal antibody (DPAB2659RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit polyclonal to human cyclin-dependent kinase-5.
Antigen Description	Cyclin-dependent kinase-5(CDK5) is a member of the cyclin-dependent kinase family of serine/threonine kinases. Its mRNA and protein are expressed in the kidneys, testes, and ovaries. And Its activity has been detected almost exclusively in brain extracts. Similar to other Cdk5, monomeric Cdk5 displays no enzymatic activity; however, Cdk5 is not activated by cyclins. Instead, Cdk5 activity requires association with one of two brain-specific regulatory subunits, called p35 and p39. These two activators regulate the spatial and temporal expression of active Cdk5, restricting its activity primarily to post-mitotic neurons.
Immunogen	His-tagged recombinant human CDK5 protein purified from Baculovirus expressed insect cells
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB
Cellular Localization	Cytoplasm
Positive Control	SH-SY5Y cells
Format	HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol.
Size	100 µl
Preservative	0.03% Sodium Azide
Storage	Store for 1 year at -20 °C from date of shipment.

GENE INFORMATION

Gene Name	CDK5 cyclin-dependent kinase 5 [Homo sapiens]
Synonyms	CDK5; cyclin-dependent kinase 5; PSSALRE; TPKII catalytic subunit; protein kinase CDK5 splicing; cell division protein kinase 5; serine/threonine-protein kinase PSSALRE; tau protein kinase II catalytic subunit; CDKN5; EC 2.7.11.22; EC 2.7.11; OTTHUMP00000212917; OTTHUMP00000212939
Entrez Gene ID	1020
Protein Refseq	NP_001157882
UniProt ID	Q00535
Chromosome Location	7q36
Pathway	Alzheimer"s disease; Axon guidance; CRMPs in Sema3A signaling; DARPP-32 events; Developmental Biology; EPHA forward signaling; Factors involved in megakaryocyte development and platelet production; Glucocorticoid receptor regulatory network; Hemostasis; IL-6 Signaling Pathway; Lissencephaly gene (LIS1) in neuronal migration and development; Nicotine Activity on Dopaminergic Neurons; Opioid Signalling; Reelin signaling pathway; Semaphorin interactions
Function	ATP binding; ErbB-2 class receptor binding; ErbB-3 class receptor binding; acetylcholine receptor activator activity; cyclin-dependent protein kinase activity; kinase activity; nucleotide binding; p53 binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; tau-protein kinase activity