Anti-Cdk5 (N-terminal) Antibody (Clone NSR-256)

Alternative Names: LIS7, PSSALRE, Cyclin-dependent-like kinase 5, Cell division protein kinase 5, Serine/threonine-protein kinase PSSALRE, Tau protein kinase II catalytic subunit, CDKN5, TPKII Catalytic Subunit, Epididymis Secretory Sperm Binding Protein

Catalogue Number: AB19-10126-100ug

Size: 100 µg

Background Information

Cyclin-dependent kinase 5 (Cdk5) is a proline-directed serine-threonine kinase belonging to the Cdc2/Cdk1 family that regulates various neuronal processes such as neurogenesis, neuronal migration, and axon guidance. It is essential for the development of the central nervous system, being highly expressed in the brain. Cdk5 is controlled by the neural specific activators p35, p39. Outside of the nervous system CDK5 regulates vesicular transport, apoptosis, cell adhesion, and migration in many cell types.
Cdk5 has been implicated in the pathology of multiple types of cancers and is a potential target for Glioblastoma. Deregulation of Cdk5 is also linked to neurodegenerative diseases such as Alzheimer's disease (AD), Parkinson's disease (PD), and Hungtington's disease (HD) and additionally it has been proposed that Cdk5 modulates the brain reward system and therefore it has consequently also been linked to psychiatric diseases.

Product Information

Antibody Type:	Monoclonal	**Host:**	Mouse
Isotype:	IgG1	**Species Reactivity:**	Human, Mouse, Rat, Monkey
Immunogen:	Partial length recombinant human CDK5 from the N-terminal region (expressed in E.coli)		
Format:	100 µg in 100 µl PBS with 0.02% sodium azide, 50% glycerol, pH7.3.		
Storage Conditions:	Store at -20°C. Avoid freeze / thaw cycles.		
Applications:	WB ICC WB 1:500. IHC 1:150.		

Additional Information

Subcellular location:	Cell junction Cell membrane, Nucleus, Postsynaptic cell membrane presynapse	**MW:**	33kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	1020	**Uniprot ID:**	Q00535