

CDK5 Monoclonal antibody

Catalog Number: 68514-1-Ig

Basic Information

Catalog Number: 68514-1-Ig	GenBank Accession Number: BC005115	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 1020	CloneNo.: 1B9E1
Source: Mouse	UNIPROT ID: Q00535	Recommended Dilutions: WB 1:5000-1:20000 IHC 1:250-1:1000 IF/ICC 1:400-1:1600
Isotype: IgG1	Full Name: cyclin-dependent kinase 5	
Immunogen Catalog Number: AG28465	Calculated MW: 31 kDa, 33 kDa Observed MW: 33 kDa	

Applications

Tested Applications:
WB, IF/ICC, IHC, ELISA

Species Specificity:
Human, Mouse

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : A549 cells, LNCaP cells, HeLa cells, Jurkat cells,
MOLT-4 cells, PC-3 cells

IHC : mouse brain tissue,

IF/ICC : SH-SY5Y cells,

Background Information

Cyclin-dependent kinase 5 (CDK5), belongs to the cyclin-dependent kinase family, is a proline-directed serine/threonine-protein kinase that 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. CDK5 predominantly expressed in neurons where it phosphorylates both high molecular weight neurofilaments and microtubule-associated protein tau.

Storage

Storage:

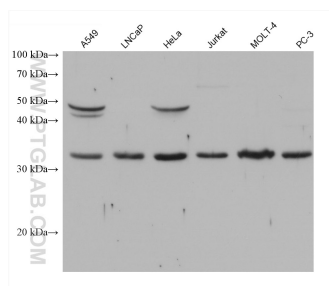
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

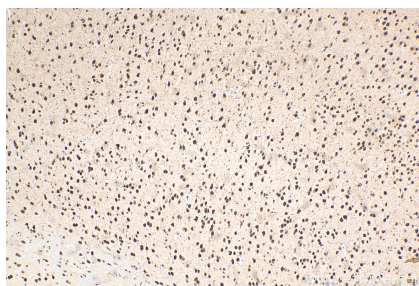
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

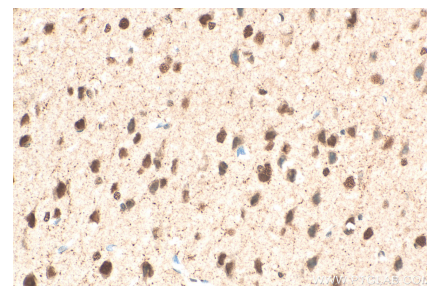
Selected Validation Data



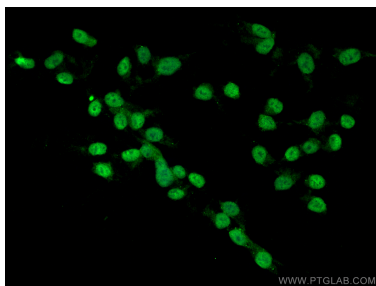
Various lysates were subjected to SDS PAGE followed by western blot with 68514-1-Ig (CDK5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68514-1-Ig (CDK5 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68514-1-Ig (CDK5 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using CDK5 antibody (68514-1-Ig, Clone: 1B9E1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).