

For Research Use Only

Cullin 5 Polyclonal antibody

Catalog Number: 31183-1-AP



Basic Information

Catalog Number: 31183-1-AP	GenBank Accession Number: BC063306	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop;	GeneID (NCBI): 8065	Recommended Dilutions: WB 1:1000-1:10000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q93034	
Isotype: IgG	Full Name: cullin 5	
Immunogen Catalog Number: AG34620	Calculated MW: 91 kDa	
	Observed MW: 80 kDa, 90 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, mouse, rat

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 : LNCaP cells, MCF-7 cells, mouse brain tissue, rat brain tissue

IHC : mouse brain tissue,

Background Information

The cullin family proteins are scaffold proteins for the RING finger type E3 ligases, participating in the proteolysis through the ubiquitin-proteasome pathway. In humans, there are eight members of cullins, including CUL1, 2, 3, 4A, 4B, 5, 7, and CUL9 with an evolutionarily conserved cullin homology domain at the C-terminus, responsible for their interaction with the RING protein, assembling 8 cullin-based RING dependent E3 ubiquitin ligases to target thousands of substrates for ubiquitination and degradation (PMID: 32334051). Cullin 5 is the key scaffolding protein of Cullin RING ligase-5 (CRL-5). Cullin 5 plays positive roles in regulating cell growth, proliferation and physiological and other processes in the human body (PMID: 32194910). Cullin 5 has been detected in the form of double bands in the results of Western blot, which might be caused by neddylation (PMID: 36449095; 31294695).

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

*** 20ul sizes contain 0.1% BSA

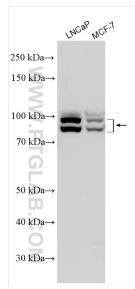
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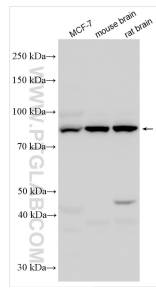
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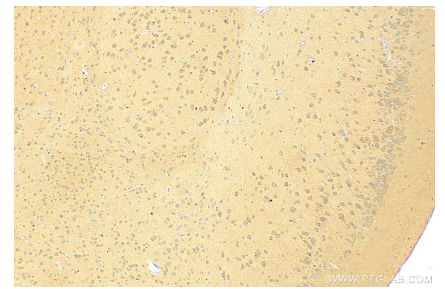
Selected Validation Data



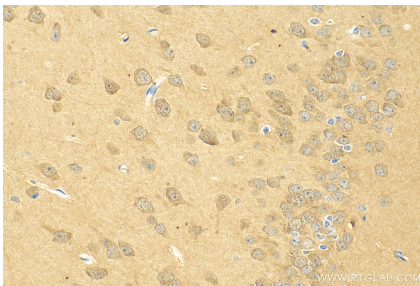
Various lysates were subjected to SDS PAGE followed by western blot with 31183-1-AP (Cullin 5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 31183-1-AP (Cullin 5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 31183-1-AP (Cullin 5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 31183-1-AP (Cullin 5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).