

For Research Use Only

DOC2A Polyclonal antibody

Catalog Number: 20575-1-AP



Basic Information

Catalog Number: 20575-1-AP	GenBank Accession Number: NM_003586	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8448	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	Full Name: double C2-like domains, alpha	
Isotype: IgG	Calculated MW: 44 kDa	
	Observed MW: 18-44 kDa	

Applications

Tested Applications:
IHC, WB, 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 : HeLa cells, mouse testis tissue, rat brain tissue

IHC : mouse brain tissue,

Background Information

DOC2, Double C2-like domain-containing protein alpha, is involved in Ca²⁺-dependent neurotransmitter release. DOC2A and DOC2B are sensors for neuronal activity with unique calcium-dependent and kinetic properties (PMID: 16515538). DOC2A is mainly expressed in brain and also expressed in testis (PMID: 7826360).

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.

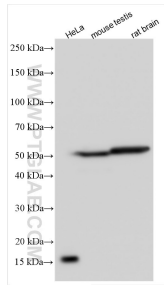
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

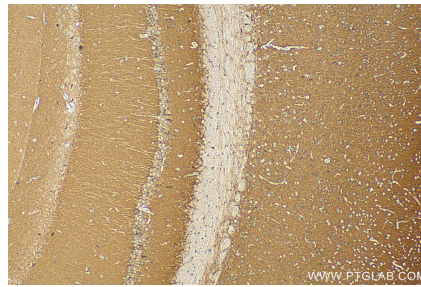
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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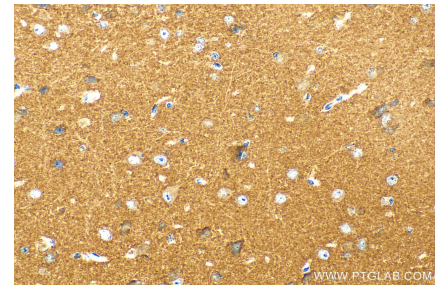
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 20575-1-AP (DOC2A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20575-1-AP (DOC2A 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 20575-1-AP (DOC2A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).