

# DOC2A Polyclonal antibody

Catalog Number: 20575-1-AP

## Basic Information

**Catalog Number:**

20575-1-AP

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_003586

**GeneID (NCBI):**

8448

**UNIPROT ID:**

Q14183

**Full Name:**

double C2-like domains, alpha

**Calculated MW:**

44 kDa

**Observed MW:**

18-44 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:50-1:500

## 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 Ca(2+)-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:**

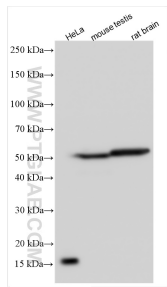
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

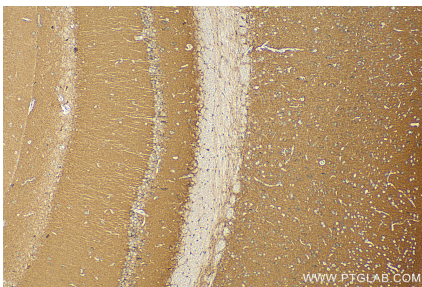
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

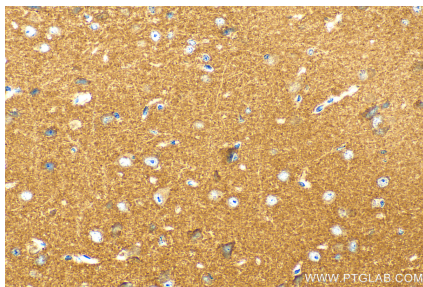
## Selected Validation Data



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).