

A6520

Leader in Biomolecular Solutions for Life Science



# AKAP5 Rabbit pAb

Catalog No.: A6520

## Basic Information

### Observed MW

47kDa

### Calculated MW

47kDa

### Category

Polyclonal Antibody

### Applications

WB,IHC-P,ELISA

### Cross-Reactivity

Human,Mouse,Rat

## Background

The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein binds to the RII-beta regulatory subunit of PKA, and also to protein kinase C and the phosphatase calcineurin. It is predominantly expressed in cerebral cortex and may anchor the PKA protein at postsynaptic densities (PSD) and be involved in the regulation of postsynaptic events. It is also expressed in T lymphocytes and may function to inhibit interleukin-2 transcription by disrupting calcineurin-dependent dephosphorylation of NFAT.

## Recommended Dilutions

**WB** 1:500 - 1:2000

**IHC-P** 1:100 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

9495

### Swiss Prot

P24588

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

H21; AKAP75; AKAP79; AKAP5

## Contact

 [www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

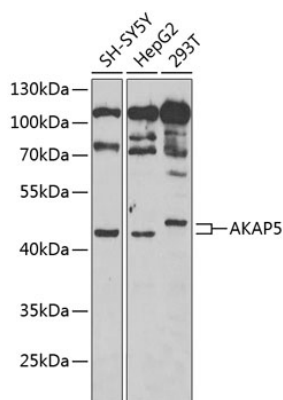
Affinity purification

### Storage

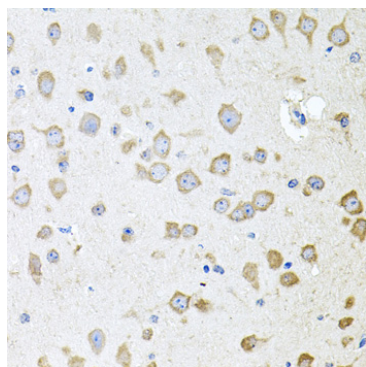
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

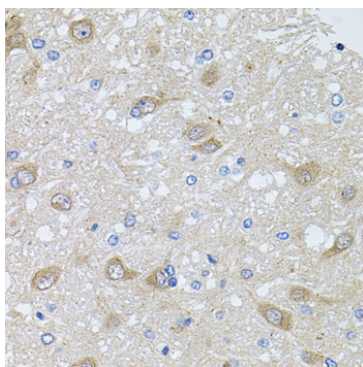
## Validation Data



Western blot analysis of various lysates using AKAP5 Rabbit pAb (A6520) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 90s.



Immunohistochemistry analysis of paraffin-embedded Mouse brain using AKAP5 Rabbit pAb (A6520) at dilution of 1:100 (40x lens).  
Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain using AKAP5 Rabbit pAb (A6520) at dilution of 1:100 (40x lens).  
Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.