

DATASHEET

Version: 2016-08-17

p39 antibody, pAb, Rabbit

Cat. No.: A01590-40

Size: 40 µg

Synonyms: CDK5 activator 2 antibody, pAb, Rabbit;

Description:

p35 and p39 are neuronal-specific regulatory subunit of Cyclin-dependent kinase 5 (CDK5). Both p35 and p39 are expressed in the brain and have been implicated in the regulation of the neuronal cytoskeleton and synaptic function via the control of CDK5 activity. N-terminal of p35 and p39 associates with α -actinin-1 while CaMKII could bind to the C-terminus of p35 and p39. Association of p39 with CDK5 promotes Munc18-1 phosphorylation and Ca^{2+} -dependent exocytosis. Phosphorylation of p39 by CDK5 plays a role in the regulation of p39/cdk5 kinase.

GenScript **p39 Antibody, pAb, Rabbit** is developed in rabbit using a KLH-coupled synthetic peptide from C-terminal of human p39 (Swiss Prot: Q13319).

Immunogen: KLH-coupled synthetic peptide from C-terminal of human p39 (Swiss Prot: Q13319)

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Predicted Band Size:

39 KD

Observed Band Size:

45 KD

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02%

sodium azide

Ig Subclass: Rabbit IgG

Specificity: GenScript **p39 Antibody, pAb, Rabbit** detects endogenous levels of human, mouse, and rat p39.

Positive Control: HEK293, SH-SY5Y, mouse and rat brain

Purification: Immunoaffinity chromatography

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western blot: 2-4 µg/ml

Immunohistochemistry: 5-10 µg/ml

Other Applications: User optimized

Species Reactivity: Human, mouse, and rat

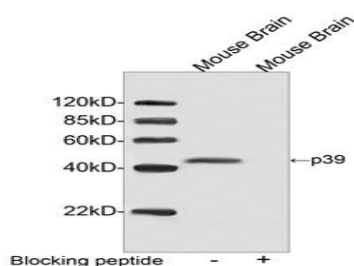
Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Example

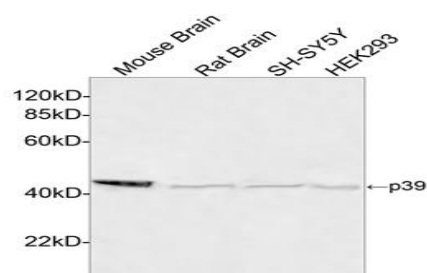


Western blot analysis of tissue lysate using **p39 Antibody, pAb, Rabbit** (GenScript, A01590, 2 µg/ml)

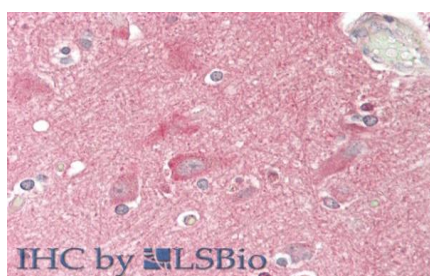
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.

Predicted Size: 39 KD

Observed Size: 45 KD



Western blot analysis of cell and tissue lysates using **p39 Antibody, pAb, Rabbit** (GenScript, A01590, 4 µg/ml)
The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.
Predicted Size: 39 KD
Observed Size: 45 KD



Immunohistochemistry analysis of human brain, cortex tissue slide (Paraffin embedded) using p39 antibody, pAb, Rabbit (GenScript, Cat.No. A01590, 10 µg/ml)