

DATASHEET

Version: 2016-08-17

CDK5 Antibody, pAb, Rabbit

Cat. No.: A01438-40

Size: 40 µg

Synonyms: Rabbit Anti-Cyclin dependent kinase 5 antibody;

Description:

Cyclin dependent kinase 5 (CDK5), a member of the cyclin-dependent kinase family, plays crucial roles in neuronal differentiation, migration, axon outgrowth and synaptogenesis. CDK5 is a proline-directed serine/threonine (Ser/Thr) kinase that phosphorylates a diverse range of substrates, such as histone H1, TAU, MAP2 and NF-H and NF-M. The activity of CDK5 depends on the combination of neuron specific activator proteins, p35 or p39 or their truncated forms, p25 and p29. CDK5 phosphorylates the transcription factor myocyte enhancer factor 2 in mediation of neurotoxic effects. The conversion of p35 to p25 by calpain gives rise to prolonged activation of CDK5. Deregulated CDK5 activity has been implicated in neurodegenerative diseases, including Alzheimers disease, Parkinsons disease and amyotrophic lateral sclerosis.

GenScript **Rabbit Anti-CDK5 Polyclonal Antibody** is developed in rabbit using a KLH-coupled synthetic peptide from C-terminal of human CDK5 (Swiss Prot: Q00535).

Immunogen: KLH-coupled synthetic peptide from C-terminal of human CDK5 (Swiss Prot: Q00535).

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Formulation:

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

Ig Subclass: Rabbit IgG

Specificity: GenScript Rabbit Anti-CDK5 Polyclonal Antibody detects endogenous levels of human, mouse, and rat CDK5.

Positive Control: Hela, HEK293, mouse brain 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: 0.5-1 µg/ml

Other Applications: user-optimized

Species Reactivity: Human, mouse, and rat. This product has not been tested for other species yet.

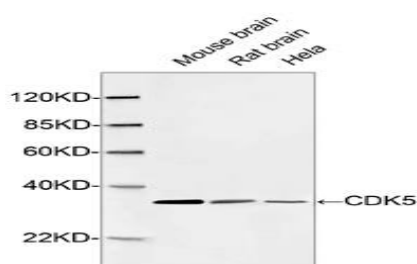
Reconstitution:

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.

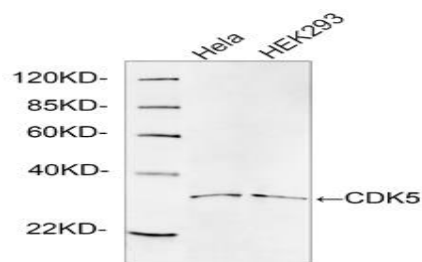
Example



Western blot analysis of cell and tissue lysates using 1 µg/ml Rabbit Anti-CDK5 Polyclonal Antibody (GenScript, A01438). The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.

Predicted Size: 33 KD

Observed Size: 33 KD



Western blot analysis of cell lysates using 1 μ g/ml Rabbit Anti-CDK5 Polyclonal Antibody (GenScript, A01438)

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

Predicted Size: 33 KD

Observed Size: 33 KD