

Product datasheet for **AP06722PU-N**

p39 (CDK5R2) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IHC, WB |
| Recommended Dilution: | Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections: 1/50-1/500. |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Synthetic peptide, corresponding to amino acids 71-122 of Human CDK5R2. |
| Specificity: | This antibody detects endogenous levels of p39 protein. (region surrounding asn100) |
| Formulation: | Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide |
| Concentration: | 1.0 mg/ml |
| Purification: | Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE) |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | ~ 39 kDa |
| Gene Name: | cyclin-dependent kinase 5 regulatory subunit 2 |
| Database Link: | Entrez Gene 12570 Mouse Entrez Gene 8941 Human Q13319 |



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Background:

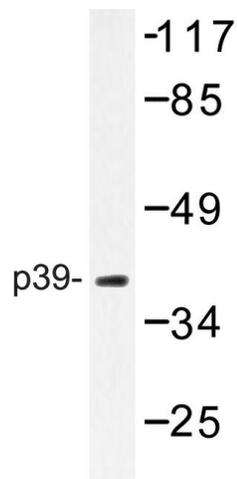
Cyclin dependent kinases, known as Cdk5, regulate transitions in the eukaryotic cell cycle. Cdk5 is required for proper development of the mammalian central nervous system and is predominantly expressed in neurons. Neuronal Cdk5 can be activated by two accessory proteins designated p35nck5a and p39nck5ai, which is also known as p39. The human p39 gene maps to chromosome 2q35 and encodes a 367-amino acid, 39 kDa protein. p35 and p39 both share limited similarity to cyclins and may define a distinct family of cyclin-dependent kinase activating proteins. During embryonic rat brain development, the expression pattern of p39 appears to have an inverse relationship to that of Cdk5 and p35, suggesting that these proteins may have region-specific and developmental stage-specific functions in rat brain. p39 can localize to lamellipodial and filopodial structures of cells and in growth cones of neurons. In addition, p39 can colocalize with actin, suggesting that p39 plays a role in regulating actin cytoskeletal dynamics in cells. The temporal and spatial expression of p39 in synaptic junctions indicates a possible role of the p39/cdk5 kinase at the synapse.

Synonyms:

CDK5 activator 2, P39, P39I, NCK5AI

Protein Families:

Druggable Genome

Product images:

Western blot (WB) analysis of p39 antibody in extracts from HUVEC cells.