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**Anti-p35**

Cat #: HM1264  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

p35 is a neuron-specific activator of cyclin-dependent kinase 5 (CDK5). The activation of CDK5 is required for proper development of the central nervous system. p35 is also expressed in many tissues in a truncated form, designated p25. p35 is proteolytically cleaved by calpain, generating p25. The cleavage of p35 into p25 results in relocalization of the protein from the cell periphery to nuclear and perinuclear regions. p25 deregulates CDK5 activity by prolonging its activation and changing its cellular location. The p25 form accumulates in the brain neurons of patients with Alzheimer's disease. This accumulation correlates with an increase in CDK5 kinase activity, and may lead to aberrantly phosphorylated forms of the microtubule-associated protein tau, which contributes to Alzheimer's disease.

**SPECIFICITY**

This antibody specifically reacts with p35 of mouse, rat and human origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

**IMMUNOGEN**

Recombinant human p35 protein expressed in E. coli.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCES**

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