

Product datasheet

Recombinant Human p35 protein ab119724

1 Image

Description

Product name	Recombinant Human p35 protein
Purity	> 70 % SDS-PAGE. The purity was determined to be 70% by densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q15078</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	60 kDa including tags
Amino acids	1 to 307

Specifications

Our **Abpromise guarantee** covers the use of **ab119724** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.003% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.29% Sodium chloride
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General Info

Function	p35 is a neuron specific activator of CDK5. The complex p35/CDK5 is required for neurite
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outgrowth and cortical lamination. Activator of TPKII.

Tissue specificity

Brain and neuron specific.

Sequence similarities

Belongs to the cyclin-dependent kinase 5 activator family.

Post-translational modifications

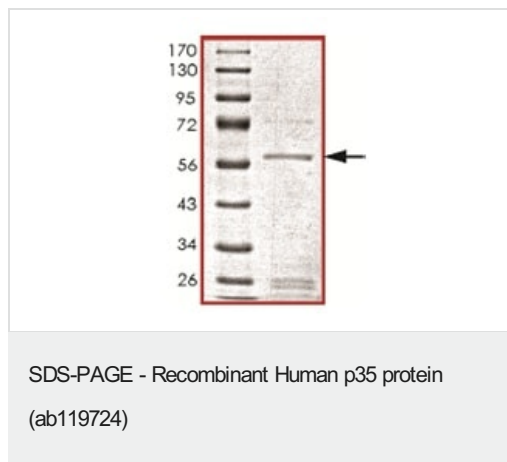
The p35 form is proteolytically cleaved by calpain, giving rise to the p25 form. P35 has a 5 to 10 fold shorter half-life compared to p25. The conversion results in deregulation of the CDK5 kinase: p25/CDK5 kinase displays an increased and altered tau phosphorylation in comparison to the p35/CDK5 kinase in vivo.

Probably myristoylated. The Gly-2-Ala mutant is absent of the cell periphery, suggesting that a proper myristoylation signal is essential for the proper distribution of p35.

Cellular localization

Cell membrane. In the primary cortical neurons, p35 is present in the peripheries and nerve terminals and Nucleus. Cytoplasm > perinuclear region. The conversion of p35 to p25 relocalizes the protein from the cell periphery to the cytoplasm, in nuclear and perinuclear regions. In the primary cortical neurons, p25 is primarily concentrated in the cell soma and is largely absent from neurites.

Images



SDS Page analysis of ab119724.

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