

Datasheet: AHP1270

Description:	RABBIT ANTI Cdk5 (C-TERMINAL)
Specificity:	Cdk5 (C-TERMINAL)
Other names:	CYCLIN-DEPENDENT KINASE 5
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/500 - 1/2000
Immunoprecipitation	▪			
Western Blotting	▪			
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Serum - liquid

Antiserum Preparation Antisera to Cdk5 were raised by repeated immunisations of rabbits with highly purified antigen.

Preservative Stabilisers	0.01% Sodium Azide (NaN ₃)
Immunogen	Peptide corresponding to C-terminus of human Cdk5 conjugated to Keyhole Limpet Hemocyanin (KLH).

External Database Links	UniProt: Q00535 Related reagents
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Entrez Gene:

[1020](#) CDK5 [Related reagents](#)

Specificity **Rabbit anti Cdk5 antibody** detects human cyclin dependent kinase 5 (Cdk5), a proline-directed serine/threonine protein kinase that unlike most Cdks does not function in cell cycle control, and is not regulated by cyclins. Instead, it requires the association p35 or p39 for its kinase activity, resulting in a master regulator of neuronal functions, with roles in neuronal survival and migration, neurotransmitter release and axon guidance.

Cdk5 is ubiquitously expressed, but expression and activity is highest in post mitotic neurones, where p35 and p39 are highly expressed. Deregulation of this kinase is neurotoxic and might contribute to the pathogenesis of Alzheimer's disease and other neurodegenerative disorders.

Further Reading

1. Cheung, Z.H. *et al.* (2006) Synaptic roles of Cdk5: implications in higher cognitive functions and neurodegenerative diseases. [Neuron. 50 \(1\): 13-8.](#)
2. Pareek, T.K. & Kulkarni, A.B. (2006) Cdk5: a new player in pain signaling. [Cell Cycle. 5 \(6\): 585-8.](#)
3. Cruz, J.C. & Tsai, L.H. (2004) Cdk5 deregulation in the pathogenesis of Alzheimer's disease. [Trends Mol Med. 10 \(9\): 452-8.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10081 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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