

HAP1 Polyclonal Antibody

Catalog NumberPA1-18323

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Rat
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Frozen) (IHC (F))	Dilution * 1:500-1:3,000
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Recombinant rat HAP-1.		
Conjugate	Unconjugated		
Form	Lyophilized		
Concentration	Conc. Not Determined		
Storage buffer	whole serum		
Contains	no preservative		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

Reconstitute in 100 µL of sterile water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20 °C for a higher stability, and at 4 °C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.

Background/Target Information

Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. HAP1 was initially identified through a two-hybrid library screening; the binding of HAP1 to huntingtin correlated with the expansion of the polyglutamine tract. HAP1 also interacts with two cytoskeletal proteins (dynactin and pericentriolar autoantigen protein 1), suggesting that HAP1 may play a role in vesicular trafficking or organelle transport. HAP1 is also involved with the huntingtin-enhanced BDNF transport along the cellular microtubules. Attenuation of this process led to the loss of neurotrophic support and neuronal toxicity, which suggests that loss of this function might contribute to pathogenesis. Several alternatively spliced isoforms have been described for HAP1.

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