

CLAC-P Polyclonal Antibody

Catalog NumberPA1-4308

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (IHC)	1:100-1:200
Type	Antibody	Western Blot (WB)	1:1,000-1:2,000
Immunogen	Synthetic peptide: D(430) Y N G N L H E A L Q R I T(443) of the NC3 region of human and murine CLAC-P	* 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.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

PA1-4308 detects CLAC-P (NC3 region) in human and mouse samples. PA1-4308 has been successfully used in Western blotting and immunohistochemistry procedures. By Western blot, this antibody detects a ~70 kDa protein representing CLAC-P (NC3 region) in stable HEK293T cell lines expressing CLAC-P (NC3 region). PA1-4308 does not cross react with COLXIII or COLXXIII proteins. PA1-4308 immunizing peptide corresponds to amino acid residues 430-443 of the NC3 region of human and mouse CLAC-P. Maintain at 4°C for 3 months or at -20°C for longer periods. Avoid freeze/thaw cycles.

Background/Target Information

Alzheimer's disease (AD) is characterized by deposition of beta-amyloid as senile plaques and cerebral amyloid angiopathy. The principal component of AD amyloid is the amyloid beta peptide (A beta). Although production and deposition of A beta appear closely related to the pathogenesis of AD, current evidence suggest that A beta alone is not sufficient to cause neuronal death and symptoms of dementia. A component of senile plaque (SP), CLAC (collagen-like Alzheimer amyloid plaque component) and its precursor CLAC-P are deposited with extracellular beta-amyloid and have been recently implicated in cell toxicity of beta-amyloid in AD brains. CLAC-P is a unique, membrane-bound collagen-like structure containing three Gly-X-Y repeat motifs and may define a novel class of neuronal collagens.

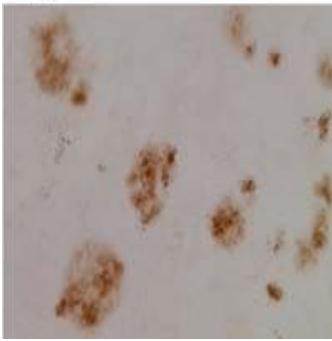
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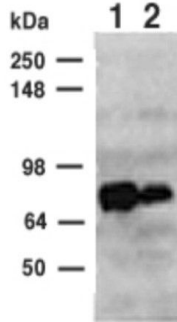
Fig. 2



CLAC-P Antibody (PA1-4308) in IHC

Immunostaining of floating sections of neocortex of Alzheimer's disease brains (fixed with formalin for 24 hours) using Product # PA1-4308. At a high magnification, the CLAC-P (NC3 region) antibody stains senile plaques.

Fig. 1



CLAC-P Antibody (PA1-4308) in WB

Western blot of HEK293 cells stably expressing CLAC-P (NC3 region) using Product # PA1-4308. Lane 1 shows full length CLAC-P in HEK293 cell lysates and lane 2 shows the secreted form of CLAC-P in culture media.

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