

PCSK2 Polyclonal Antibody

Catalog NumberPA1-31853

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	<div>Tested ApplicationsDilution * Immunoprecipitation (IP)1:100 Western Blot (WB)1:1,000-1:4,000 Immunocytochemistry (ICC/IF)1:100-1:400</div> <div>* 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.</div>	
Class	Polyclonal		
Type	Antibody		
Immunogen	synthetic peptide GLQDSSTDNRAKLC, corresponding to amino acids 95 - 107 of Human PC2.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1.36 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

PA1-31853 has been successfully used in immunofluorescence and Western blot applications, where a band of approximately 82 kDa is detected.

Background/Target Information

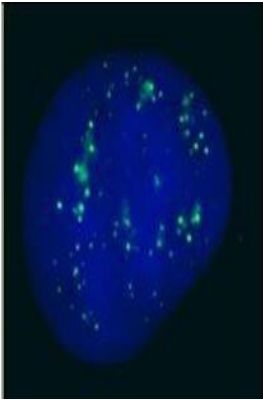
The subtilisin-like prohormone convertase (PC) family is a group of cellular enzymes that cleave most prohormones and neuropeptide precursors. Numerous other cellular proteins, some viral proteins, and bacterial toxins that are transported by the constitutive secretory pathway are also targeted for maturation by PCs. PC family members share structural similarities, which include a heterogeneous approximately 10 kDa amino-terminal proregion, a highly conserved approximately 55 kDa subtilisin-like catalytic domain, and carboxyl-terminal domain that is heterogeneous in length and sequence. These enzymes become catalytically active following proregion cleavage within the appropriate cellular compartment. The subcellular localization of PC family members varies. Immunolocalization studies show that PC1 is found in the perinuclear region as well as the trans-Golgi network, whereas PC2 can be found in the trans-Golgi network as well as diffusely distributed in the peripheral cytoplasm.

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PCSK2 Antibody (PA1-31853) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of PCSK2 using PCSK2 Polyclonal Antibody (Product # PA1-31853) on human U2OS cells. The image reveals the expected discrete nuclear structure that is termed the PcG body corresponding to the known localization of PC2. Immunofluorescence was performed after fixation in PBS with 4% PF for 5 min, permeabilization with 0.5% Polyethylene glycol tert-octylphenyl ether-PBS for 5 min, and blocking with 5% milk / 0.2% Tween for 1 h. Primary antibody used at 1:200 in 5% milk / 0.2% Tween for 1 h, secondary antibody for 30 min. All blocking and incubation steps carried out at 37° C. Nuclei were counterstained with Hoechst stain (blue).

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