

ATG9A Polyclonal Antibody

Catalog NumberPA5-35205

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Type	Antibody	Western Blot (WB)	1:1,000
Immunogen	KLH conjugated synthetic peptide between 717-746 amino acids from the C-terminal region of human ATG9A	Immunocytochemistry (ICC/IF)	1:100
		* 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	0.5 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Background/Target Information

Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). Apg9 plays a direct role in the formation of the cytoplasm to vacuole targeting and autophagic vesicles, possibly serving as a marker for a specialized compartment essential for these vesicle-mediated alternative targeting pathways.

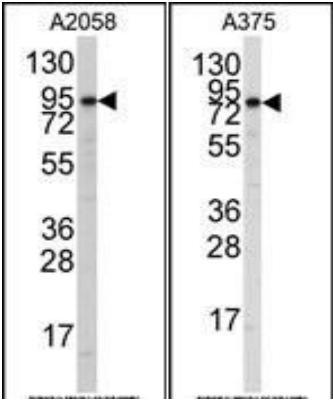
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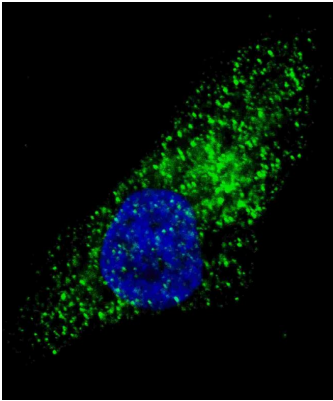
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Product Images For ATG9A Polyclonal Antibody



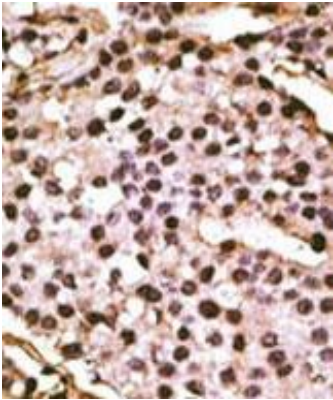
**ATG9A Antibody (PA5-35205) in WB**

Western blot analysis of ATG9A in A2058 and A375 cell lysates (35 µg/lane) using an ATG9A polyclonal antibody (Product # PA5-35205).



**ATG9A Antibody (PA5-35205) in ICC/IF**

Immunofluorescent analysis of ATG9A showing staining in the cytoplasm of U-251 cells. U251 cells were treated with Chloroquine (50uM, 16h), fixed with 4% PFA (20 min) and permeabilized with Triton X-100 (0.2%, 30 min). Cells were probed with an ATG9A polyclonal antibody (Product # PA5-35205) (1:100, 2h at room temperature) followed by detection using a fluorescent conjugated secondary antibody (green) (1:1000, 1h). Nuclei were stained with Hoechst 33342 (blue) (10 µg/mL, 5 min).



**ATG9A Antibody (PA5-35205) in IHC (P)**

Immunohistochemistry analysis of ATG9A in formalin-fixed, paraffin-embedded human cancer tissue using an ATG9A polyclonal antibody (Product # PA5-35205) followed by DAB staining. BC = breast carcinoma; HC = hepatocarcinoma.

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