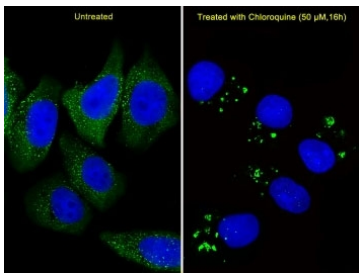
Anti-ATG5 Antibody (F46219)

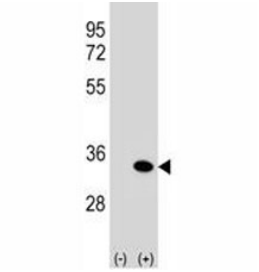
Catalog No.	Formulation	Size
F46219-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F46219-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

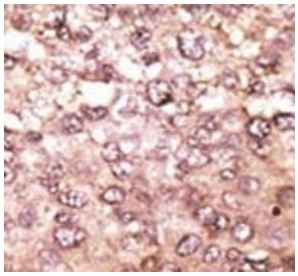
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q9H1Y0
Applications	Immunofluorescence: 1:25 Western blot: 1:1000 IHC (Paraffin): 1:50-1:100
Limitations	This anti-ATG5 antibody is available for research use only.



Fluorescent image of U251 cells stained with anti-ATG5 antibody diluted at 1:25 dilution. U251 cells were treated with Chloroquine (50 uM, 16h), An Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary Ab (green). DAPI was used as a nuclear counterstain (blue).



Western blot analysis of anti-ATG5 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (2) with the human gene. Predicted molecular weight ATG5: ~32 kDa; ATG5/ATG12 heterodimer: ~56 kDa.



IHC analysis of FFPE human hepatocarcinoma tissue stained with the anti-ATG5 antibody

Description

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. APG5, required for autophagy, conjugates to ATG12 and associates with an isolation membrane to form a cup-shaped isolation membrane and autophagosome. The conjugate detaches from the membrane immediately before or after autophagosome formation is completed. APG5 may also play an important role in the apoptotic process, possibly within the modified cytoskeleton. Its expression is a relatively late event in the apoptotic process, occurring downstream of caspase activity.

Application Notes

Titration of the anti-ATG5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 209-238 from the human protein was used as the immunogen for this anti-ATG5 antibody.

Storage

Aliquot the anti-ATG5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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