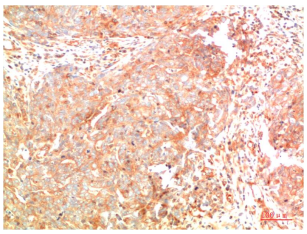
ATG7 (1F8) Mouse mAb

db6594 **Package：50μL 100μL**

Product Name : ATG7 (1F8) Mouse mAb
Cat.No.: db6594
Synonyms : hAGP7; Ubiquitin-activating enzyme E1-like protein; APG7L
Application : IHC-P
Reactivity : Human, Rat, Mouse
Host species : Mouse

Background	E1-like activating enzyme involved in the 2 ubiquitin-like systems required for cytoplasm to vacuole transport (Cvt) and autophagy. Activates ATG12 for its conjugation with ATG5 as well as the ATG8 family proteins for their conjugation with phosphatidylethanolamine. Both systems are needed for the ATG8 association to Cvt vesicles and autophagosomes membranes. Required for autophagic death induced by caspase-8 inhibition. Required for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Modulates p53/TP53 activity to regulate cell cycle and survival during metabolic stress. Plays also a key role in the maintenance of axonal homeostasis, the prevention of axonal degeneration, the maintenance of hematopoietic stem cells, the formation of Paneth cell granules, as well as in adipose differentiation.
Immunogen	Purified recombinant protein expressed in E.coli
Gene ID	10533
Swiss Prot	O95352
Synonyms	hAGP7; Ubiquitin-activating enzyme E1-like protein; APG7L
Reactivity	Human, Rat, Mouse
Application	IHC-P
Recommended dilution	IHC: 1:50-1:100
Calculated MW	78 kDa
Host species	Mouse
Clonality	Monoclonal
Clonality No.	1F8-8H4-4G10
Isotype	IgG1

Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Immunohistochemistry analysis of paraffin-embedded Human Breast Carcinoma Tissue using ATG7 (1F8) antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.