Data Sheet (Cat.No.TMAB-00164)

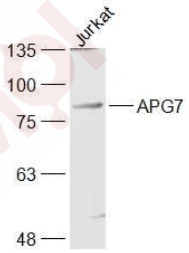
Anti-ATG7 Polyclonal Antibody

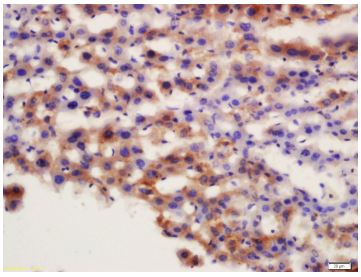
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Chicken,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 78 kDa. Actual: 85 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Jurkat (Human) Cell Lysate at 30 µg Primary: Anti-APG7 (TMAB-00164) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 75 kDa Observed band size: 85 kDa 2. Tissue/cell: mouse liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-APG7 Polyclonal Antibody, Unconjugated (TMAB-00164) 1:200, overnight at 4° C, followed by conjugation to the secondary antibody and DAb staining.





Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human ATG7
Antigen Species:	Human
Gene ID:	10533
Uniprot ID:	O95352
Synonyms:	DKFZp434N0735;Apg 7;Atg7l;APG7 like;ATG 7;APG7L;Autophagy-related 7(yeast);APG7 autophagy 7-like(S. cerevisiae);hAGP7;Autophagy related protein 7;ATG7 autophagy related 7 homolog(S. cerevisiae);ATG7 autophagy related 7 homolog;Autophagy 7, S. cerevisiae, homolog of;Ubiquitin activating enzyme E1 like protein;APG7 autophagy 7 like;GSA 7;APG7, S. cerevisiae, homolog of;GSA7
Biology Area:	Energy Metabolism,Cancer,Mitophagy fission and fusion,Autophagy and mitophagy,APG gene products,Energy Metabolism,Ub-like Proteins,Associated Proteins,APG gene products, Autophagy,Signal Transduction,APG gene products

Research Background

This gene was identified based on homology to Pichia pastoris GSA7 and Saccharomyces cerevisiae APG7. In the yeast, the protein appears to be required for fusion of peroxisomal and vacuolar membranes. The protein shows homology to the ATP-binding and catalytic sites of the E1 ubiquitin activating enzymes. [provided by RefSeq, Jan 2009].

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