bs-7462R **[Primary Antibody]**

ATG14 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 22863 **SWISS:** Q6ZNE5

Target: ATG14

Immunogen: KLH conjugated synthetic peptide derived from human ATG14: 41-140/492.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Required for both basal and inducible autophagy. Plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine. Promotes BECN1 translocation from the trans-Golgi network to autophagosomes. Enhances PIK3C3 activity in a BECN1-dependent manner.

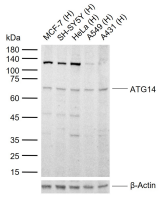
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human (predicted: Mouse, Rat, Pig, Cow, Dog)

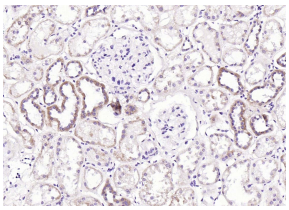
Predicted MW.: 55 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Human MCF-7 cell lysates Lane 2: Human SH-SY5Y cell lysates Lane 3: Human HeLa cell lysates Lane 4: Human A549 cell lysates Lane 5: Human A431 cell lysates Primary: Anti-ATG14 (bs-7462R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kDa Observed band size: 68 kDa



Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ATG14) Polyclonal Antibody, Unconjugated (bs-7462R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=9.584]** Zheng, Bingxin. et al. Siglec-15-induced autophagy promotes invasion and metastasis of human osteosarcoma cells by activating the epithelial–mesenchymal transition and Beclin-1/ATG14 pathway. CELL BIOSCI. 2022 Dec;12(1):1-15 WB ;Human. 35842729