bs-3864R **[Primary Antibody]**

ATG13 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9776 **SWISS:** O75143

Target: ATG13

Immunogen: KLH conjugated synthetic peptide derived from human ATG13: 51-150/517.

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: Autophagy factor required for autophagosome formation. Target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex.

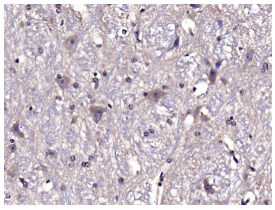
Applications: **IHC-P** (1:400-800)
IHC-F (1:400-800)
IF (1:100-500)

Reactivity: Mouse, Rat
(predicted: Human, Rabbit, Pig, Sheep, Chicken, Dog)

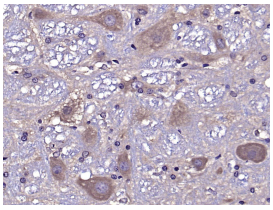
Predicted MW.: 57 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATG13 Polyclonal Antibody, Unconjugated (bs-3864R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATG13 Polyclonal Antibody, Unconjugated (bs-3864R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=6.8]** Huan Deng. et al. Low selenium and T-2 toxin may be involved in the pathogenesis of Kashin-Beck disease by affecting AMPK/mTOR/ULK1 pathway mediated autophagy. ECOTOX ENVIRON SAFE. 2024 Jul;279:116503 IHC,WB ;Rat. 38810288
- **[IF=2.685]** Yang, Ningning. et al. bta-miR-2904 inhibits bovine viral diarrhea virus replication by targeting viral-infection-induced autophagy via ATG13. ARCH VIROL. 2023 Jan;168(1):1-8 WB ;Bovine. 36576583
- **[IF=2.8]** Xiu-Li Zhang. et al. MCT1-mediated transport of valeric acid promotes porcine preimplantation embryo development by improving mitochondrial function and inhibiting the autophagic AMPK-ULK1 pathway. THERIOGENOLOGY. 2024 Sep;225:152 WB ;Pig. 38805997