

Ambra1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: W | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 135-150 | Source/Isotype: Rabbit | UniProt ID: #Q9C0C7 | Entrez-Gene Id: 55626 |
|------------------------------|----------------------|--|---|---|---|---|
| Product Usage Information | | Application Western Blotting | | | Dilution 1:1000 | |
| Storage | | Supplied in 10 mM soo 20°C. Do not aliquot th | |), 150 mM NaCl, 100 μg/ | ml BSA and 50% gl | ycerol. Store at – |
| Specificity/Sensitivity | | Ambra1 Antibody recognizes endogenous levels of total Ambra1 protein. A band of unknown origin is observed at 75 kDa in some cell lines. | | | | |
| Source / Purification | | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu220 of human Ambra1 protein. Antibodies are purified by protein A and peptide affinity chromatography. | | | | |
| Background | | during neurodevelopr studies have identified (reviewed in 2). Ambra activating the class III complex to the cytosk phosphorylates Ambra complex to the endop been found that Ambra apoptosis or autophag | nent that is required interactions betwood in was originally for PI3K Vps34 (1). Fur eletal network throal, resulting in disalasmic reticulum to ral binds to mitoch gy (5,6). Ambral als | autophagy (Ambra1) is a d for neural tube develo een Ambra1 with regulat and to interact with Becl ther studies showed tha ugh dynein light chains association with dynein a initiate autophagosome ondrial Bcl-2 and that th o interacts with Parkin, as as of mitochondrial clear | pment and autoph tors of autophagy a in-1, a key protein r t Ambra1 tethers th and that during au and translocation of the formation (3,4). Ir is interaction is reg an E3 ubiquitin liga | agy (1). Several and apoptosis esponsible for ne Beclin-1-Vps34 tophagy ULK1 the Beclin-Vps34 a addition, it has culated by either |
| Background Ref | Ferences | 1. Fimia, G.M. et al. (2007) <i>Nature</i> 447, 1121-5. 2. Fimia, G.M. et al. (2013) <i>Oncogene</i> 32, 3311-8. 3. Di Bartolomeo, S. et al. (2010) <i>J Cell Biol</i> 191, 155-68. 4. Fimia, G.M. et al. (2011) <i>Autophagy</i> 7, 115-7. 5. Strappazzon, F. et al. (2011) <i>EMBO J</i> 30, 1195-208. 6. Tooze, S.A. and Codogno, P. (2011) <i>EMBO J</i> 30, 1185-6. 7. Van Humbeeck, C. et al. (2011) <i>J Neurosci</i> 31, 10249-61. 8. Van Humbeeck, C. et al. (2011) <i>Autophagy</i> 7, 1555-6. | | | | |
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Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat

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