

## Product datasheet for **TA306559**

### AMBRA1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Ambra1 antibody was raised against a 18 amino acid peptide from near the amino terminus of human Ambra1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	autophagy and beclin 1 regulator 1
Database Link:	<a href="#">NP_060219</a> <a href="#">Entrez Gene 228361 Mouse</a> <a href="#">Entrez Gene 55626 Human</a> <a href="#">Q9C0C7</a>



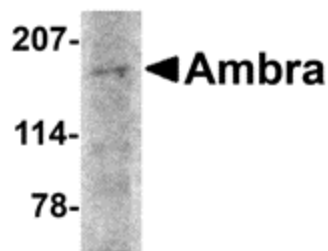
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**Background:**

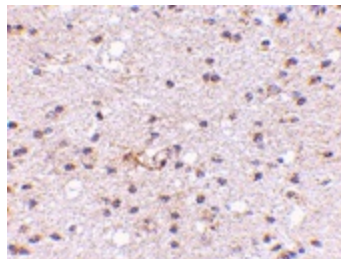
Autophagy, the process of bulk degradation of cellular proteins through an autophagosomal-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components. Beclin-1, a principal regulator of autophagosome formation, is in turn regulated by Ambra1. Ambra1 associates with Beclin-1 through a region near its center as determined by yeast two-hybrid assay. Null mutations in this gene in mice resulted in embryonic lethality with severe neural tube defects associated with autophagy impairment, accumulation of ubiquitinated proteins, unbalanced cell proliferation and excessive apoptotic death. Furthermore, down-regulation of Ambra1 in cultured cells through RNA interference decreased the level of rapamycin- and nutrient starvation-induced autophagy. Multiple isoforms of Ambra1 are known to exist.

**Synonyms:**

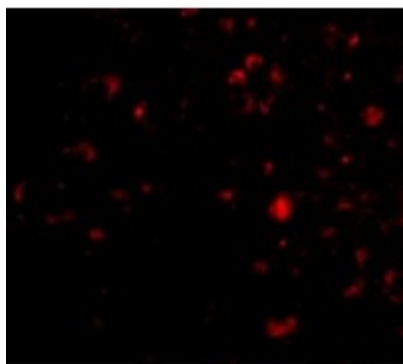
DCAF3; WDR94

**Product images:**

Western blot analysis of Ambra1 in rat brain tissue lysate with Ambra1 antibody at 2 ug/ml.



Immunohistochemistry of Ambra1 in human brain with Ambra1 antibody at 5 ug/ml.



Immunofluorescence of Ambra1 in Human Brain cells with Ambra1 antibody at 20 ug/mL.