AMBRA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AMBRA1, Polyclonal Antibody
Full Product Name	AMBRA1, CT (Activating molecule in BECN1-regulated autophagy protein 1, KIAA1736) (Biotin)
Product Gene Name	anti-AMBRA1 antibody
Product Synonym Names	Activating molecule in BECN1-regulated autophagy protein 1; KIAA1736
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	1298
OMIM	611359
3D Structure	ModBase 3D Structure for Q9C0C7
Immunogen	AMBRA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human AMBRA1.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-AMBRA1 antibody	Antibodies; Autophagy
Applications Tested/Suitable for anti-AMBRA1 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-AMBRA1 antibody	IHC: 1:10-50 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-AMBRA1 antibody	AMBRA1 regulates autophagy and development of the nervous system. This protein is involved in autophagy in controlling protein turnover during neuronal development, and in regulating normal cell survival and proliferation.
Product References and Citations for anti-AMBRA1 antibody	Maria Fimia G., Nature 447:1121-1125(2007). Nagase T., DNA Res. 7:347-355(2000). Ota T., Nat. Genet. 36:40-45(2004).
Other Notes	Small volumes of anti-AMBRA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AMBRA1 purchase	MBS6273160 is an antibody targeting AMBRA1. Also known as AMBRA1, CT (Activating molecule in BECN1-regulated autophagy protein 1, KIAA1736) (Biotin). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AMBRA1. It may not necessarily be applicable to this product.

NCBI GI #	166215833
NCBI GeneID	55626
NCBI Accession #	Q9C0C7.2
UniProt Primary Accession #	Q9C0C7
UniProt Secondary Accession #	Q86XD6; Q9H8Z0; Q9NXE7; A6XN33; D3DQP8; G3V193
UniProt Related Accession #	Q9C0C7
NCBI Official Full Name	Activating molecule in BECN1-regulated autophagy protein 1
NCBI Official Synonym Full Names	autophagy/beclin-1 regulator 1
NCBI Official Symbol	AMBRA1
NCBI Official Synonym Symbols	DCAF3; WDR94
UniProt Protein Name	Activating molecule in BECN1-regulated autophagy protein 1
Protein Family	Activating molecule in BECN1-regulated autophagy protein
UniProt Gene Name	AMBRA1
UniProt Synonym Gene Names	KIAA1736
UniProt Entry Name	AMRA1_HUMAN
NCBI Protein Information	activating molecule in BECN1-regulated autophagy protein 1; WD repeat domain 94; DDB1 and CUL4 associated factor 3; activating molecule in beclin-1-regulated autophagy
UniProt Comments for AMBRA1	AMBRA1: a WD40 protein that regulates autophagy and development of the nervous system. A highly conserved vertebrate protein whose expression is mostly confined to the neuroepithelium during early neurogenesis. Involved in autophagy in controlling protein turnover during neuronal development, and in regulating normal cell survival and proliferation. Interacts with ATG6. Forms a complex with ATG6 and PIK3C3. Its functional inactivation in mouse is lethal in utero (starting from embryonic day 14.5), leading to severe neural tube defects associated with autophagy impairment, accumulation of ubiquitinated proteins, and excessive apoptosis. Hyperproliferation followed by a wave of caspase-dependent cell death was the earliest detectable abnormality in the developing neuroepithelium. Five isoforms of the human protein are produced by alternative splicing. Protein type: Autophagy; Vesicle Chromosomal Location of Human Ortholog: 11p11.2 Cellular Component: mitochondrial outer membrane; intracellular membrane-bound organelle; mitochondrion; cytoplasm; autophagic vacuole; phagocytic vesicle; axoneme; cytosol Molecular Function: protein binding; ubiquitin protein ligase binding Biological Process: neural tube development; negative regulation of cell proliferation; positive regulation of phosphoinositide 3-kinase activity; autophagy; negative regulation of neuron apoptosis; cell differentiation
Research Articles on AMBRA1	**1.** Ambra1 is a crucial regulator of autophagy and apoptosis in colorectal cancer cells
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