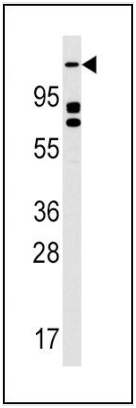
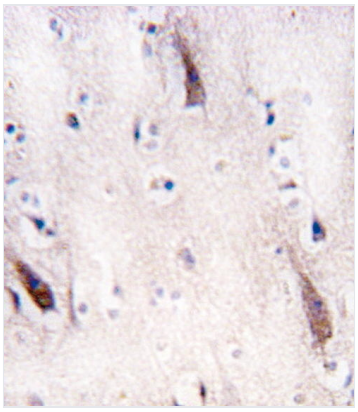
ULK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ULK2, Polyclonal Antibody
Full Product Name	ULK2, NT (Serine/Threonine-protein Kinase ULK2, Unc-51-like Kinase 2, KIAA0623) (MaxLight 550)
Product Gene Name	anti-ULK2 antibody
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 MaxLight550.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ULK2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	Predicted: 105; 114 kDa Observed: 100 kDa
OMIM	608650
3D Structure	ModBase 3D Structure for Q8IYT8
Immunogen	Synthetic peptide selected from the N-terminal region of human ULK2 (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-ULK2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ULK2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-ULK2 antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-ULK2 antibody	MBS6504800 is an antibody targeting ULK2. Also known as ULK2, NT (Serine/Threonine-protein Kinase ULK2, Unc-51-like Kinase 2, KIAA0623) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ULK2 antibody	1. Yan, J., et al., Oncogene 18(43):5850-5859 (1999).
Other Notes	Small volumes of anti-ULK2 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.



Western Blot (WB) of anti-ULK2 antibody
Western blot analysis of anti-ULK2 Antibody (N-term) in K562 cell line lysates (35ug/lane). ULK2(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-ULK2 antibody
Formalin-fixed and paraffin-embedded human brain tissue reacted with ULK2 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ULK2. It may not necessarily be applicable to this product.

NCBI GI #	217330557
NCBI GeneID	9706
NCBI Accession #	NP_055498
UniProt Primary Accession #	Q8IYT8
UniProt Secondary Accession #	O75119; A8MY69
UniProt Related Accession #	Q8IYT8
GenBank Nucleotide #	NM_014683.3
NCBI Official Full Name	serine/threonine-protein kinase ULK2
NCBI Official Synonym Full Names	unc-51 like autophagy activating kinase 2
NCBI Official Symbol	ULK2
NCBI Official Synonym Symbols	ATG1B; Unc51.2
UniProt Protein Name	Serine/threonine-protein kinase ULK2
UniProt Synonym Protein Names	Unc-51-like kinase 2
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	ULK2
UniProt Synonym Gene Names	KIAA0623
UniProt Entry Name	ULK2_HUMAN
NCBI Protein Information	serine/threonine-protein kinase ULK2
NCBI Summary for ULK2	This gene encodes a protein that is similar to a serine/threonine kinase in C. elegans which is involved in axonal elongation. The structure of this protein is similar to the C. elegans protein in that both proteins have an N-terminal kinase domain, a central proline/serine rich (PS) domain, and a C-terminal (C) domain. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Dec 2008]

UniProt Comments for ULK2	ULK2: Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3- kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in autophagy: acts both as a downstream effector and a negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK, also acts as a negative regulator of AMPK through phosphorylation of the AMPK subunits PRKAA1, PRKAB2 and PRKAG1. May phosphorylate ATG13/KIAA0652, FRS2, FRS3 and RPTOR; however such data need additional evidences. Not involved in ammonia-induced autophagy or in autophagic response of cerebellar granule neurons (CGN) to low potassium concentration. Plays a role early in neuronal differentiation and is required for granule cell axon formation: may govern axon formation via Ras-like GTPase signaling and through regulation of the Rab5-mediated endocytic pathways within developing axons. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. APG1/unc-51/ULK1 subfamily. Protein type: Kinase, protein; Autophagy; EC 2.7.11.1; Protein kinase, Other; Protein kinase, Ser/Thr (non-receptor); Other group; ULK family Chromosomal Location of Human Ortholog: 17p11.2 Cellular Component: cytoplasmic vesicle membrane; pre-autophagosomal structure membrane; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding Biological Process: response to starvation; axon extension; protein amino acid autophosphorylation; regulation of autophagy; negative regulation of collateral sprouting; signal transduction; autophagic vacuole formation
Research Articles on ULK2	**1.** First identification and naming of ULK2 as an ortholog of mouse ULK2.
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