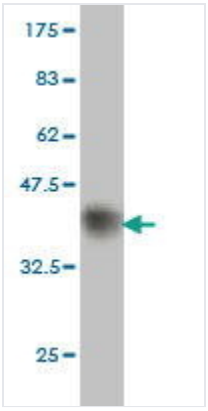
ULK1 Antibody – Mouse Monoclonal

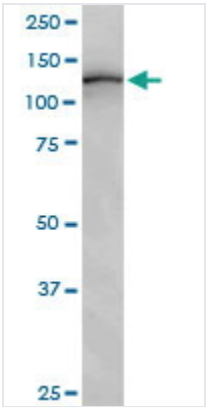
PRODUCT OVERVIEW

Product Name	ULK1, Monoclonal Antibody
Full Product Name	ULK1 (Unc-51-like Kinase 1, Serine/threonine-protein Kinase ULK1, Autophagy-related Protein 1 Homolog, ATG1, hATG1, KIAA0722) APC
Product Gene Name	anti-ULK1 antibody
Product Synonym Names	EC=2.7.11.1; ATG1A; hATG1; UNC51; Unc51.1
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2H8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ULK1.
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 amo immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrif prior to removing the cap.
Molecular Weight	112631 MW
OMIM	603168
3D Structure	ModBase 3D Structure for O75385
Immunogen	Partial recombinant corresponding to aa602-716 from ULK1 (NP_003556) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LRGSPKLPDFLQRNPLPPILGSPTKAVPSFDFPKTPSSQNLLALLARQGVVMTPPRNRTLPDLSEVGPFHGQPLGPGLRPGEDPKGPFGRSFSTSRLTDL
Conjugate	APC
Product Categories/Family for anti-ULK1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ULK1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-ULK1 antibody	Applications are based on unconjugated antibody.

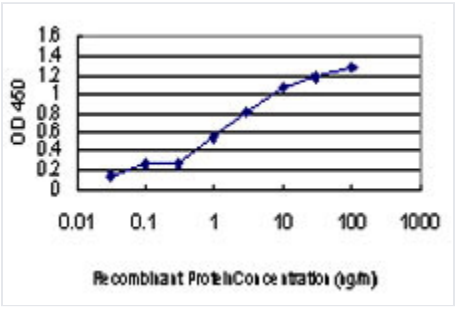
Related Product Information for anti-ULK1 antibody	MBS6139764 is an antibody targeting ULK1. Also known as ULK1 (Unc-51-like Kinase 1, Serine/threonine-protein Kinase ULK1, Autophagy-related Pr ATG1, hATG1, KIAA0722) APC. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-ULK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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



Western Blot (WB) of anti-ULK1 antibody
Western Blot detection against Immunogen (38.65kD).



Western Blot (WB) of anti-ULK1 antibody
ULK1 monoclonal antibody Western Blot analysis of ULK1 expression in human colon.



Testing Data of anti-ULK1 antibody
Detection limit for recombinant GST tagged ULK1 is ~0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ULK1. It may not necessarily be applicable to this product.

NCBI GI #	4507831
NCBI GeneID	8408
NCBI Accession #	NP_003556.1
UniProt Primary Accession #	O75385
UniProt Secondary Accession #	Q9UQ28
UniProt Related Accession #	O75385
GenBank Nucleotide #	NM_003565
NCBI Official Full Name	serine/threonine-protein kinase ULK1
NCBI Official Synonym Full Names	unc-51 like autophagy activating kinase 1
NCBI Official Symbol	ULK1
NCBI Official Synonym Symbols	ATG1; ATG1A; UNC51; hATG1; Unc51.1
UniProt Protein Name	Serine/threonine-protein kinase ULK1

UniProt Synonym Protein Names	Autophagy-related protein 1 homolog; ATG1; hATG1; Unc-51-like kinase 1
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	ULK1
UniProt Synonym Gene Names	KIAA0722; ATG1; hATG1
UniProt Entry Name	ULK1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase ULK1
UniProt Comments for ULK1	ULK1: 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 negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity. May phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences. Plays a role early in neuronal differentiation and is required for granule cell axon formation. Interacts with GABARAP and GABARAPL2. Interacts (via C- terminus) with ATG13/KIAA0652. Part of a complex consisting of ATG13/KIAA0652, ULK1 and RB1CC1. Associates with the mammalian target of rapamycin complex 1 (mTORC1) through an interaction with RPTOR; the association depends on nutrient conditions and is reduced during starvation. Ubiquitously expressed. Detected in the following adult tissues: skeletal muscle, heart, pancreas, brain, placenta, liver, kidney, and lung. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. APG1/unc-51/ULK1 subfamily. Protein type: Protein kinase, Other; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; Autophagy; Other group; ULK family Chromosomal Location of Human Ortholog: 12q24.3 Cellular Component: neuron projection; cytoplasmic vesicle membrane; cell soma; cytoplasm; pre-autophagosomal structure membrane; autophagic vacuole; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; protein complex binding; protein kinase binding; ATP binding; Rab GTPase binding Biological Process: axon extension; protein amino acid autophosphorylation; neurite regeneration; negative regulation of collateral sprouting; cerebellar granule cell differentiation; protein amino acid phosphorylation; radial glia guided migration of granule cell; response to starvation; cellular response to nutrient levels; protein localization; receptor internalization; Ras protein signal transduction; regulation of autophagy; regulation of nerve growth factor receptor signaling pathway; positive regulation of macroautophagy; positive regulation of autophagy; neurite development; autophagic vacuole formation
Research Articles on ULK1	**1.** review the diverse roles of ULK1, with special focus on its importance to type I IFN signaling, and highlight important future study questions.
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