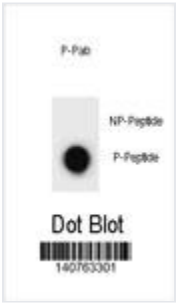
Phospho-ULK2 (S323) (ULK2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Phospho-ULK2 (S323), Polyclonal Antibody
Full Product Name	Phospho-ULK2 (S323) Antibody
Product Gene Name	anti-ULK2 antibody
Product Synonym Names	Serine/threonine-protein kinase ULK2; Unc-51-like kinase 2; ULK2; KIAA0623
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Mouse)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This ULK2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S323 of human ULK2.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ULK2 (S323) peptide (MBS9225332) is used for blocking the activity of ULK2 (S323) antibody (MBS9201249)
Molecular Weight	112694
OMIM	608650
3D Structure	ModBase 3D Structure for Q8IYT8
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-ULK2 antibody	Signal Transduction; Phospho Antibodies
Applications Tested/Suitable for anti-ULK2 antibody	Dot Blot (DB), ELISA (EIA)
Application Notes for anti-ULK2 antibody	DB~~1:500
Related Product Information for anti-ULK2 antibody	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].
Product References and Citations for anti-ULK2 antibody	Rose, J. Phd, et al. Mol. Med. (2010) In press : Jung, C.H., et al. Mol. Biol. Cell 20(7):1992-2003(2009) Stelzl, U., et al. Cell 122(6):957-968(2005) Tomoda, T., et al. Genes Dev. 18(5):541-558(2004) 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.
Searchable Terms for ULK2 purchase	MBS9201249 is an antibody targeting ULK2. Also known as Phospho-ULK2 (S323) Antibody. Reactive in Human (Predicted Reactivity: Mouse). Host: Rabbit.



Dot Blot (DB) of anti-ULK2 antibody
Dot blot analysis of ULK2 Antibody (Phospho S323) Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

ADDITIONAL DETAILS

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

NCBI GI #	217330559
NCBI GeneID	9706
NCBI Accession #	NP_001136082.1
NCBI Related Accession #	NP_055498.3
UniProt Primary Accession #	Q8IYT8
UniProt Secondary Accession #	O75119; A8MY69
UniProt Related Accession #	Q8IYT8
GenBank Nucleotide #	NM_001142610.1
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: EC 2.7.11.1; Autophagy; Protein kinase, Other; Kinase, protein; 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.** Glioblastoma and glioma cell lines had low levels of ULK2 transcripts. ULK2 promoter methylation and transcript levels showed significant negative correlation.
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