ULK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ULK2, Polyclonal Antibody
Full Product Name	ULK2 Polyclonal Antibody
Product Gene Name	anti-ULK2 antibody
Product Synonym Names	unc-51-like kinase 2; C. elegans; ULK2; KIAA0623
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	140
OMIM	608650
3D Structure	ModBase 3D Structure for Q8IYT8
Immunogen	Synthetic peptide from human protein at AA range: 930-1000
Storage Buffer	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ULK2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ULK2 antibody	WB: 1:500-2000 ELISA: 1:10000-20000
Related Product Information for anti-ULK2 antibody	MBS8532452 is an antibody targeting ULK2. Also known as ULK2 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.

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
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
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	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.
Research Articles on ULK2	**1.** MiRNA-26b may play a key role in cell growth and death of laryngeal carcinoma through ULK2 and the PTEN/AKT pathway.
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