ULK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ULK3, Polyclonal Antibody
Full Product Name	ULK3, CT (ULK3, Serine/threonine-protein kinase ULK3, Unc-51-like kinase 3) (MaxLight 750)
Product Gene Name	anti-ULK3 antibody
Product Synonym Names	ULK3; Serine/threonine-protein kinase ULK3; Unc-51-like kinase 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,444 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (75128459..75135552, complement). Location: 15q24.1
OMIM	613472
3D Structure	ModBase 3D Structure for Q6PHR2
Immunogen	ULK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 346-375 amino acids from the C-terminal region of human ULK3.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-ULK3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-ULK3 antibody	Western Blot (WB), FLISA
Application Notes for anti-ULK3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ULK3 antibody	Serine/threonine protein kinase which enhances GLI1 and GLI2 transcriptional activity and consequently positively regulates GLI-dependent SHH signaling. May exert this function by promoting GLI1 nuclear localization. Phosphorylates in vitro GLI2, as well as GLI1 and GLI3, although less efficiently.
Product References and Citations for anti-ULK3 antibody	Maloverjan, A., et al. J. Biol. Chem. 285(39):30079-30090(2010). Takeuchi, F., et al. Circulation 121(21):2302-2309(2010). Maloverjan, A., et al. Exp. Cell Res. 316(4):627-637(2010). Levy, D., et al. Nat. Genet. 41(6):677-687(2009). Kim, D.H., et al. Blood 113(11):2517-2525(2009).

Other Notes	Small volumes of anti-ULK3 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 ULK3 purchase	MBS6361397 is an antibody targeting ULK3. Also known as ULK3, CT (ULK3, Serine/threonine-protein kinase ULK3, Unc-51-like kinase 3) (MaxLight 750). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ULK3. It may not necessarily be applicable to this product.

NCBI GI #	150456432
NCBI GeneID	25989
NCBI Accession #	NP_001092906.1
UniProt Primary Accession #	Q6PHR2
UniProt Secondary Accession #	Q9NPN5; Q9UFS4; B2RXK3; B4DRQ7; D3DW68
UniProt Related Accession #	Q6PHR2
GenBank Nucleotide #	NM_001099436.1
NCBI Official Full Name	serine/threonine-protein kinase ULK3
NCBI Official Synonym Full Names	unc-51-like kinase 3 (C. elegans)
NCBI Official Symbol	ULK3
UniProt Protein Name	Serine/threonine-protein kinase ULK3
UniProt Synonym Protein Names	Unc-51-like kinase 3
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	ULK3
UniProt Entry Name	ULK3_HUMAN
NCBI Protein Information	serine/threonine-protein kinase ULK3
UniProt Comments for ULK3	ULK3: Serine/threonine protein kinase that acts as a regulator of Sonic hedgehog (SHH) signaling and autophagy. Acts as a negative regulator of SHH signaling in the absence of SHH ligand: interacts with SUFU, thereby inactivating the protein kinase activity and preventing phosphorylation of GLI proteins (GLI1, GLI2 and/or GLI3). Positively regulates SHH signaling in the presence of SHH: dissociates from SUFU, autophosphorylates and mediates phosphorylation of GLI2, activating it and promoting its nuclear translocation. Phosphorylates in vitro GLI2, as well as GLI1 and GLI3, although less efficiently. Also acts as a regulator of autophagy: following cellular senescence, able to induce autophagy. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. APG1/unc-51/ULK1 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Protein kinase, Other; Kinase, protein; Other group; ULK family Chromosomal Location of Human Ortholog: 15q24.1 Cellular Component: membrane; cytoplasm; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding Biological Process: negative regulation of smoothened signaling pathway; protein amino acid autophosphorylation; positive regulation of smoothened signaling pathway; autophagy; regulation of autophagy; autophagic vacuole formation
Research Articles on ULK3	**1.** Observational study and meta-analysis of gene-disease association. (HuGE Navigator)

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