

Rabbit ULK3 Polyclonal Antibody | anti-ULK3 antibody

ULK3 Antibody (N-term)

CATALOG # AAA286782	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Mouse)	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

ULK3; Polyclonal Antibody; ULK3 Antibody (N-term); Serine/threonine-protein kinase ULK3; Unc-51-like kinase 3; anti-ULK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ULK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-43 amino acids from the N-terminal region of human ULK3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	14-43
Sequence Length	483
Applicable Applications for anti-ULK3 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	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.
Cellular Location	Cytoplasm. Note=Localizes to pre-autophagosomal structure during cellular senescence
Tissue Location	Widely expressed. Highest levels observed in fetal brain. In adult tissues, high levels in brain, liver and kidney, moderate levels in testis and adrenal gland and low levels in heart, lung, stomach, thymus, prostate and placenta. In the brain, highest expression in the hippocampus, high levels also detected in the cerebellum, olfactory bulb and optic nerve. In the central nervous system, lowest levels in the spinal cord
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



Application Data

Anti-ULK3 Antibody (N-term) at 1:2000 dilution + LNCaP whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



WB (Western Blot)

Western blot analysis of anti-ULK3 Antibody (N-term) in mouse heart tissue lysates (35ug/lane).ULK3(arrow) was detected using the purified Pab.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human testis tissue reacted with *ULK3 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 INFORMATION

Related Product Information for anti-ULK3 antibody	ULK3 is a member of the ULK kinase family, one of three human homologs of the yeast autophagy-specific kinase.
Product Categories/Family for anti-ULK3 antibody	Signal Transduction ; GPCR Antibodies
References	The MGC Project Team, Genome Res. 14:2121-2127(2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	150456432
NCBI GeneID	25989
NCBI Accession #	NP_001092906.1
NCBI GenBank Nucleotide #	NM_001099436.1
UniProt Accession #	Q6PHR2 ; Q9NPN5 ; Q9UFS4 ; B2RXK3 ; B4DFT0 ; B4DRQ7 ; D3DW68
Molecular Weight	53444
NCBI Official Full Name	serine/threonine-protein kinase ULK3
NCBI Official Synonym Full Names	unc-51 like kinase 3
NCBI Official Symbol	ULK3
NCBI Protein Information	serine/threonine-protein kinase ULK3
UniProt Protein Name	Serine/threonine-protein kinase ULK3
UniProt Gene Name	ULK3
UniProt Entry Name	ULK3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.