10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ULK3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8115a

Specification

ULK3 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q6PHR2
Other Accession	Q3U3Q1
Reactivity	**Human, Mouse**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**53444**
Antigen Region	**14-43**

ULK3 Antibody (N-term) - Additional Information

Gene ID 25989

Other Names
Serine/threonine-protein kinase ULK3, Unc-51-like kinase 3, ULK3

Target/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.

Dilution
WB~~1:2000
IHC-P~~1:10~50

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.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ULK3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ULK3 Antibody (N-term) - Protein Information

Name ULK3

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

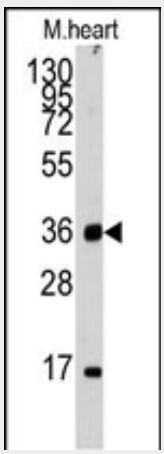
Tissue Location
Widely expressed. Highest levels observed in fetal brain. In adult tissues, high levels in brain, liver and kidney, moderate levels in testis and adrenal gland and low levels in heart, lung, stomach, thymus, prostate and placenta. In the brain, highest expression in the hippocampus, high levels also detected in the cerebellum, olfactory bulb and optic nerve. In the central nervous system, lowest levels in the spinal cord

ULK3 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

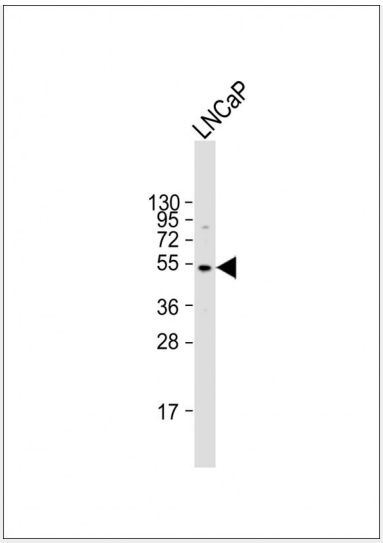
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ULK3 Antibody (N-term) - Images

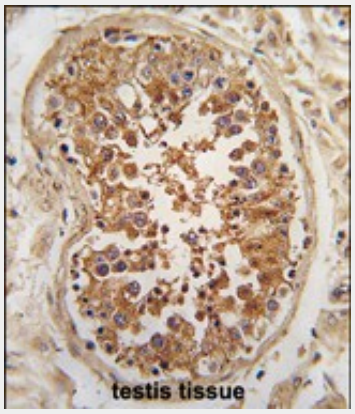


Western blot analysis of anti-ULK3 Antibody (N-term) (Cat.#AP8115a) in mouse heart tissue lysates (35ug/lane).ULK3(arrow) was detected using the purified Pab.

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Anti-ULK3 Antibody (N-term) at 1:2000 dilution + LNCaP whole cell lysate Lysates/proteins at 20 µg 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.



Formalin-fixed and paraffin-embedded human testis tissue reacted with *ULK3 antibody (N-term) (Cat.#AP8115a), 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.

ULK3 Antibody (N-term) - Background

ULK3 is a member of the ULK kinase family, one of three human homologs of the yeast autophagy-specific kinase.

ULK3 Antibody (N-term) - References

The MGC Project Team, Genome Res. 14:2121-2127(2004).