10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

ULK3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13473b

Specification

ULK3 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O6PHR2
Other Accession	NP_001092906.1
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**53444**
Antigen Region	**347-375**

ULK3 Antibody (C-term) - Additional Information

Gene ID 25989

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

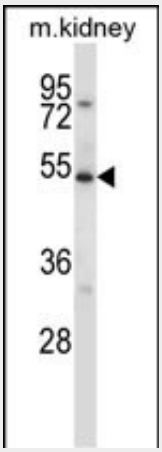
Target/Specificity
This ULK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 347-375 amino acids from the C-terminal region of human ULK3.

Dilution
WB~~1:1000

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.

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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.



ULK3 Antibody (C-term) (Cat. #AP13473b) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the ULK3 antibody detected the ULK3 protein (arrow).

ULK3 Antibody (C-term) - Background

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.

ULK3 Antibody (C-term) - References

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)

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ULK3 Antibody (C-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 (C-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