

**ULK3 Antibody (Internal)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16046****Specification**

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**ULK3 Antibody (Internal) - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	<a href="#">Q6PHR2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

**ULK3 Antibody (Internal) - Additional Information****Gene ID** 25989**Other Names**

Serine/threonine-protein kinase ULK3, 2.7.11.1, Unc-51-like kinase 3, ULK3

**Target/Specificity**

ULK3 antibody is human specific. Multiple isoforms of ULK3 are known to exist.

**Reconstitution & Storage**

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

ULK3 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**ULK3 Antibody (Internal) - 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

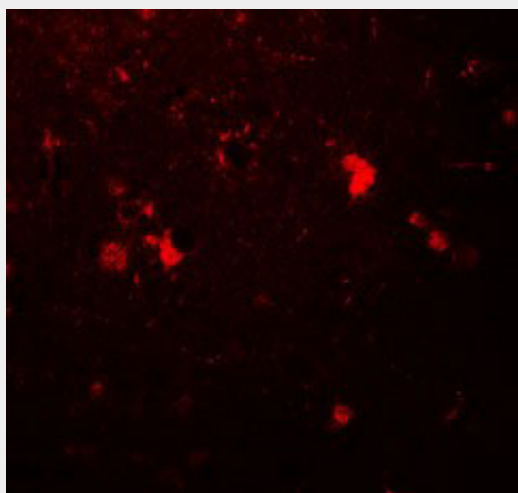
**Tissue Location**

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

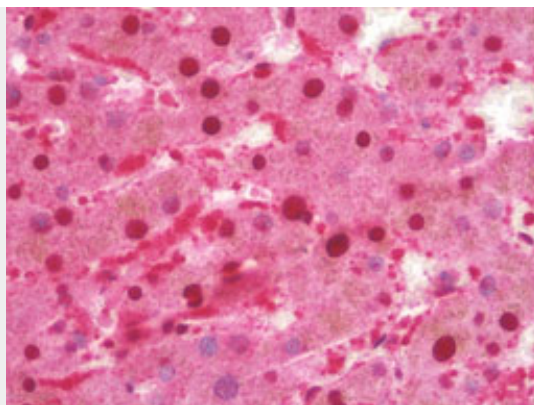
**ULK3 Antibody (Internal) - Protocols**

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

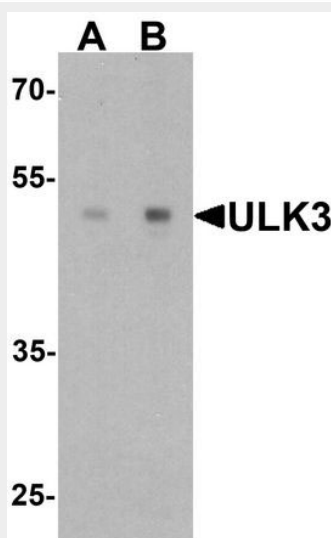
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ULK3 Antibody (Internal) - Images**

Immunofluorescence of ULK3 in human brain tissue with ULK3 antibody at 20 µg/mL.



Anti-ULK3 antibody IHC staining of human liver.



Western blot analysis of ULK3 in human brain tissue lysate with ULK3 antibody at (A) 0.5 and (B)...

#### **ULK3 Antibody (Internal) - Background**

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#### **ULK3 Antibody (Internal) - References**

Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Bechtel S.,et al.BMC Genomics 8:399-399(2007).  
Zody M.C.,et al.Nature 440:671-675(2006).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Daub H.,et al.Mol. Cell 31:438-448(2008).