

Anti-ULK3 Antibody

Catalog Number: A07706

About ULK3

ULK3 belongs to the Ser/Thr protein kinase superfamily and plays a role in the ATP-dependent phosphorylation of target proteins (1). Knockout of ULK genes results in a severe defect in the autophagy pathway (2). ULK3, like the other Unc-51-like kinases such as ULK1, ULK2 and ULK4, is highly conserved among eukaryotes (3). ULK3 has been shown to be a positive regulator of the Hedgehog signaling pathway by enhancing GLI1 and GLI2 transcriptional activity (4). Furthermore, ULK3 can also interact with SUFU, a protein required for the negative regulation of GLI proteins; this interaction blocks the autophosphorylation of ULK3 and blocks its ability to regulate the GLI proteins (5).

Overview

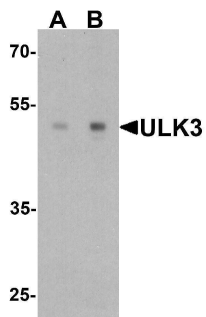
Product Name	Anti-ULK3 Antibody
Reactive Species	Human
Description	Boster Bio Anti-ULK3 Antibody (Catalog # A07706). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	ULK3 antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	ULK3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	Q6PHR2

Technical Details

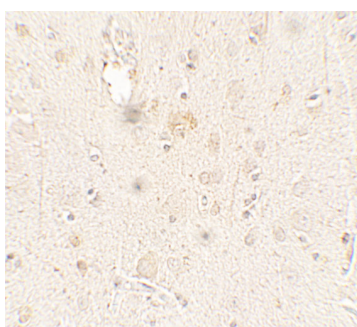
Immunogen	ULK3 antibody was raised against a 19 amino acid peptide near the center of human ULK3. The immunogen is located within amino acids 230 - 280 of ULK3.
Predicted Reactive Species	Chicken, Mouse, Rat
Cross Reactivity	ULK3 antibody is human specific. Multiple isoforms of ULK3 are known to exist.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ULK3 antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	ULK3 antibody can be used for detection of ULK3 by Western blot at 0.5 - 1 ug/ml. Antibody can also

be used for Immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

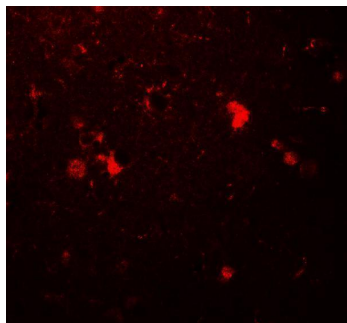
Anti-ULK3 Antibody (A07706) Images



Western blot analysis of ULK3 in human brain tissue lysate with ULK3 antibody at (A) 0.5 and (B) 1 ug/ml.



Immunohistochemistry of ULK3 in human brain tissue with ULK3 antibody at 5 ug/mL.



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

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Anti-ULK3 Antibody

For Research Use Only. Not for use in diagnostic procedures.