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Product datasheet for AP51239PU-N

ULK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	**ELISA:** 1/1000. **Western Blot:** 1/100-1/500. **Flow Cytometry:** 1/10-1/50. **Immunohistochemistry on Paraffin Sections:** 1/50-1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide selected from Human Unc-51-like kinase 1 (ULK1)
Specificity:	This antibody recognizes Human and Mouse Unc-51-like kinase 1 (ULK1).
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Proteinn A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	unc-51 like autophagy activating kinase 1
Database Link:	Entrez Gene 22241 MouseEntrez Gene 8408 Human O75385

View online »

Background: ULK1 is involved in autophagy. It is required for autophagosome formation (By similarity). Target of the TOR kinase signaling pathway that regulates autophagy through the control of phosphorylation status of ATG13/KIAA0652 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex (By similarity). Phosphorylates ATG13/KIAA0652. It is involved in axon growth (By similarity) and plays an essential role in neurite extension of cerebellar granule cells (By similarity).

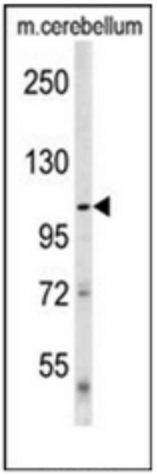
Synonyms: KIAA0722, Unc-51-like kinase 1, Autophagy-related protein 1 homolog

Note: **Molecular Weight:** 112601 Da

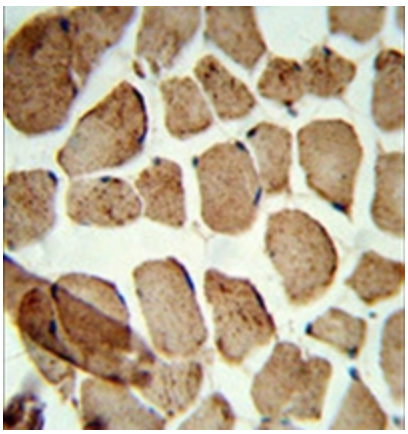
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: mTOR signaling pathway, Regulation of autophagy

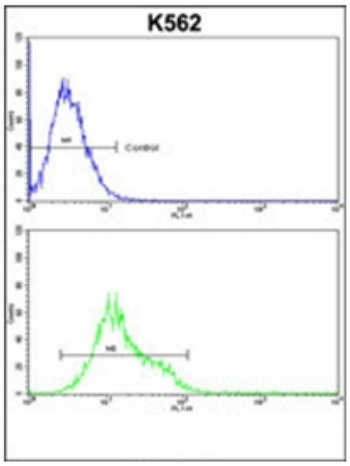
Product images:



Western blot analysis of Denatured ATG1 Antibody in mouse cerebellum tissue lysates (35ug/lane). ATG1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with Denatured ATG1 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Flow cytometric analysis of k562 cells using Denatured ATG1 Antibody (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.