

Anti-ULK1 Antibody (6P282)

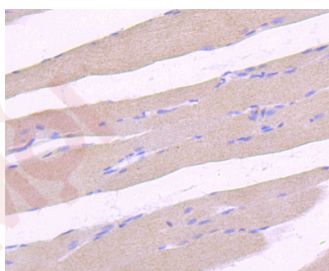
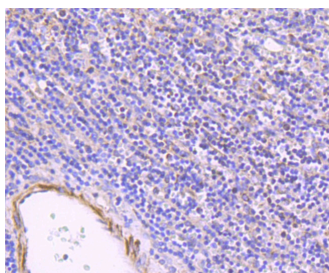
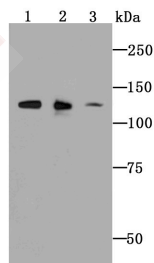
Product Details

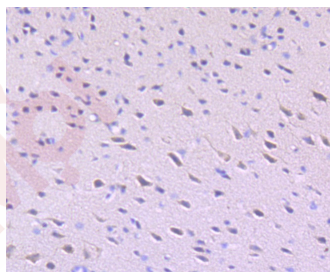
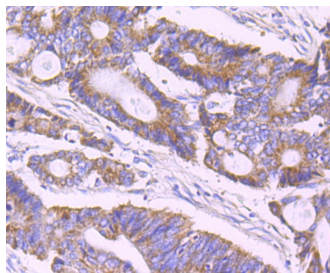
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 112 kDa.
Clone:	6P282
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of ULK1 on different cell lysate using anti-ULK1 antibody at 1/1,000 dilution. Positive control: Lane1: MCF-7, Lane2: Mouse spleen, Lane3: SH-SY5Y.
2. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-ULK1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat skeleton muscle tissue using anti-ULK1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-ULK1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-ULK1 antibody. Counter stained with hematoxylin.





Application: IHC,WB

Recommended WB: 1:500-2000; IHC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O75385

Synonyms: ATG1A;Unc-51-like kinase 1;UNC 51;ATG1;ATG 1;ULK 1;hATG1;ULK1;Serine/threonine protein kinase ULK1;UNC51;Unc 51 like kinase 1;Serine/threonine protein kinase Unc51.1;Autophagy-related protein 1 homolog;Unc-51 like kinase 1(C. elegans);Unc 51(C. elegans) like kinase 1

Research Background

Serine/threonine-protein kinase involved in autophagy in response to starvation. Acts upstream of phosphatidylinositol 3-kinase PIK3C3 to regulate the formation of autophagophores, the precursors of autophagosomes. Part of regulatory feedback loops in autophagy: acts both as a downstream effector and negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK and also acts as a regulator of AMPK by mediating phosphorylation of AMPK subunits PRKAA1, PRKAB2 and PRKAG1, leading to negatively regulate AMPK activity. May phosphorylate ATG13/KIAA0652 and RPTOR; however such data need additional evidences. Plays a role early in neuronal differentiation and is required for granule cell axon formation. May also phosphorylate SESN2 and SQSTM1 to regulate autophagy.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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