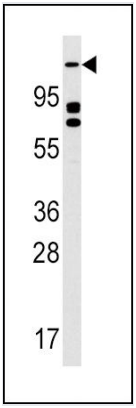
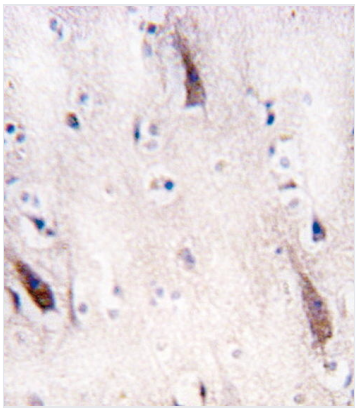
# ULK2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | ULK2, Polyclonal Antibody |
| **Full Product Name** | ULK2, NT (Serine/Threonine-protein Kinase ULK2, Unc-51-like Kinase 2, KIAA0623) (AP) |
| **Product Gene Name** | anti-ULK2 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase. |
| **Purity/Purification** | Purified by Ammonium Sulfate Precipitation. |
| **Specificity** | Recognizes human ULK2. |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | Predicted: 105; 114 kDa<br><br>Observed: 100 kDa |
| **OMIM** | 608650 |
| **3D Structure** | ModBase 3D Structure for Q8IYT8 |
| **Immunogen** | Synthetic peptide selected from the N-terminal region of human ULK2 (KLH). |
| **Conjugate** | AP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-ULK2 antibody** | Antibodies; Protein Kinases |
| **Applications Tested/Suitable for anti-ULK2 antibody** | Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB) |
| **Application Notes for anti-ULK2 antibody** | IHC: 1:10-1:50<br>ELISA: 1:1,000<br>WB: 1:50-1:100<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-ULK2 antibody** | MBS6504792 is an antibody targeting ULK2. Also known as ULK2, NT (Serine/Threonine-protein Kinase ULK2, Unc-51-like Kinase 2, KIAA0623) (AP). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-ULK2 antibody** | 1. Yan, J., et al., Oncogene 18(43):5850-5859 (1999). |
| **Other Notes** | Small volumes of anti-ULK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-ULK2 antibody**
Western blot analysis of anti-ULK2 Antibody (N-term) in K562 cell line lysates (35ug/lane). ULK2(arrow) was detected using the purified Pab.



**Immunohistochemistry (IHC) of anti-ULK2 antibody**
Formalin-fixed and paraffin-embedded human brain tissue reacted with ULK2 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ULK2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 217330557 |
| **NCBI GeneID** | 9706 |
| **NCBI Accession #** | NP_055498 |
| **UniProt Primary Accession #** | Q8IYT8 |
| **UniProt Secondary Accession #** | O75119; A8MY69 |
| **UniProt Related Accession #** | Q8IYT8 |
| **GenBank Nucleotide #** | NM_014683.3 |
| **NCBI Official Full Name** | serine/threonine-protein kinase ULK2 |
| **NCBI Official Synonym Full Names** | unc-51 like autophagy activating kinase 2 |
| **NCBI Official Symbol** | ULK2 |
| **NCBI Official Synonym Symbols** | ATG1B; Unc51.2 |
| **UniProt Protein Name** | Serine/threonine-protein kinase ULK2 |
| **UniProt Synonym Protein Names** | Unc-51-like kinase 2 |
| **Protein Family** | Serine/threonine-protein kinase |
| **UniProt Gene Name** | ULK2 |
| **UniProt Synonym Gene Names** | KIAA0623 |
| **UniProt Entry Name** | ULK2_HUMAN |
| **NCBI Protein Information** | serine/threonine-protein kinase ULK2 |
| **NCBI Summary for ULK2** | This gene encodes a protein that is similar to a serine/threonine kinase in C. elegans which is involved in axonal elongation. The structure of this protein is similar to the C. elegans protein in that both proteins have an N-terminal kinase domain, a central proline/serine rich (PS) domain, and a C-terminal (C) domain. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Dec 2008] |

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| **UniProt Comments for ULK2** | ULK2: 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 a negative regulator of mammalian target of rapamycin complex 1 (mTORC1) via interaction with RPTOR. Activated via phosphorylation by AMPK, also acts as a negative regulator of AMPK through phosphorylation of the AMPK subunits PRKAA1, PRKAB2 and PRKAG1. May phosphorylate ATG13/KIAA0652, FRS2, FRS3 and RPTOR; however such data need additional evidences. Not involved in ammonia-induced autophagy or in autophagic response of cerebellar granule neurons (CGN) to low potassium concentration. Plays a role early in neuronal differentiation and is required for granule cell axon formation: may govern axon formation via Ras-like GTPase signaling and through regulation of the Rab5-mediated endocytic pathways within developing axons. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. APG1/unc-51/ULK1 subfamily.<br><br>Protein type: Kinase, protein; Autophagy; EC 2.7.11.1; Protein kinase, Other; Protein kinase, Ser/Thr (non-receptor); Other group; ULK family<br><br>Chromosomal Location of Human Ortholog: 17p11.2<br><br>Cellular Component: cytoplasmic vesicle membrane; pre-autophagosomal structure membrane; cytosol<br><br>Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding<br><br>Biological Process: response to starvation; axon extension; protein amino acid autophosphorylation; regulation of autophagy; negative regulation of collateral sprouting; signal transduction; autophagic vacuole formation |
| **Research Articles on ULK2** | **1.** First identification and naming of ULK2 as an ortholog of mouse ULK2. |
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