

Anti-ULK1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

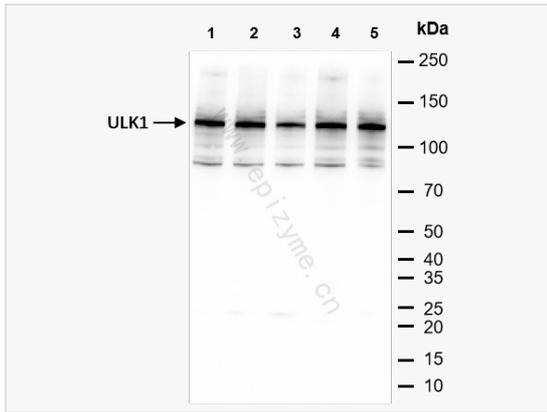
Catalog # R014176

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	26O19C45
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human ULK1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ULK1 Rabbit mAb [26O19C45] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	ATG 1, ATG1, ATG1 autophagy related 1 homolog, ATG1A, Autophagy related protein 1 homolog, Autophagy-related protein 1 homolog, FLJ38455, FLJ46475, hATG1, KIAA0722, Serine/threonine protein kinase ULK1, Serine/threonine protein kinase Unc51.1, Serine/threonine-protein kinase ULK1, ULK 1, ULK1, ULK1_HUMAN, Unc 51 (C. elegans) like kinase 1, UNC 51, Unc 51 like kinase 1, Unc-51 like kinase 1 (C. elegans), Unc-51-like kinase 1, UNC51, UNC51, C. elegans, homolog of, Unc51.1.
Calculated MW	Calculated MW: 113 kDa; Observed MW: 120 kDa
Uniprot ID	O75385
Gene ID	8408
Background	Act as a convergence point for multiple signals that control autophagy, and can bind to several autophagy-related (Atg) proteins, regulating phosphorylation states and protein trafficking. AMPK, activated during low nutrient conditions, directly phosphorylates ULK1 at multiple sites including Ser317, Ser555, and Ser777. Conversely, mTOR, which is a regulator of cell growth and an inhibitor of autophagy, phosphorylates ULK1 at Ser757 and disrupts the interaction between ULK1 and AMPK.
Cellular Location	Cytoplasm, cytosol. Preautophagosomal structure. Under starvation conditions, is localized to punctate structures primarily representing the isolation membrane that sequesters a portion of the cytoplasm resulting in the formation of an autophagosome.
Tissue Location	Ubiquitously expressed. Detected in the following adult tissues: skeletal muscle, heart, pancreas, brain, placenta, liver, kidney, and lung.



Western Blot - Anti-ULK1 Rabbit mAb [26O19C45]

All lanes: R014176 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 113 kDa

Observed band size: 120 kDa

Developed using the ECL technique (Cat. No. SQ201).