ULK1 Antibody

Catalog No: #43772

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Description

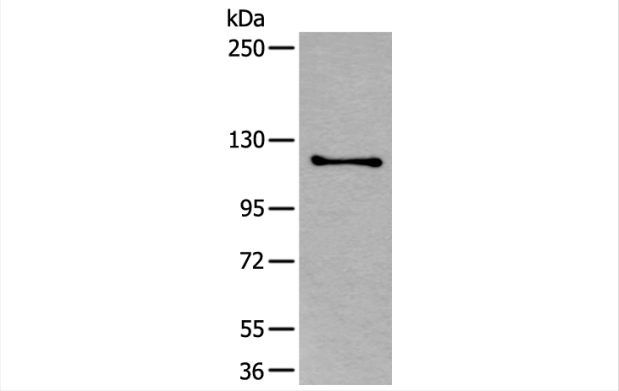
Product Name	ULK1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Applications	IHC WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total ULK1 protein.
Immunogen Type	peptide
Immunogen Description	Synthetic peptide of human ULK1
Target Name	ULK1
Other Names	ATG1; ATG1A; UNC51; hATG1; Unc51.1
Accession No.	Swiss-Prot#: O75385NCBI Gene ID: 8408
Uniprot	O75385
GeneID	8408;
Calculated MW	113kd
Concentration	0.6mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C

Application Details

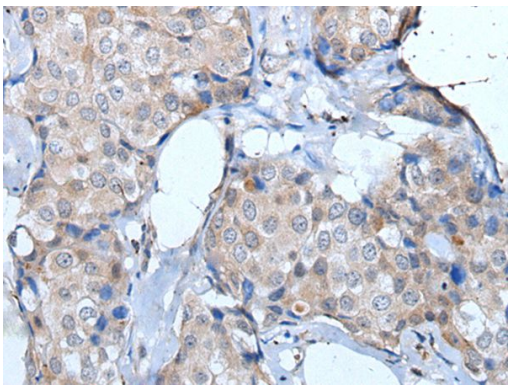
Western blotting: 1:200-1000

Immunohistochemistry: 1: 20-100

Images



Gel: 6%SDS-PAGE
Lysate: 40 µg, Lane: Hela cell lysate,
Primary antibody:ULK1 antibody at dilution 1/250,
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution,
Exposure time: 20 seconds



The image on the left is immunohistochemistry of paraffin-embedded Human breast cancer tissue using ULK1 Antibody at dilution 1/25, on the right is treated with synthetic peptide. (Original magnification: x200)

Background

ULK1 and ULK2 (for UNC-51-like kinase) encode similar amino-terminal serine/threonine kinase domains, a proline/serine-rich (PS) domain, and a species conserved carboxyl-terminal domain. Both share homology with the UNC-51 kinase from Caenorhabditis elegans and the APG1 kinase in yeast, which are involved in axonal extension and growth, and autophagy, respectively. ULK1 maps to human chromosome 12q24.3 and is ubiquitously expressed . ULK2, also widely expressed, maps to mouse chromosome 11B1.3 and is expected to have a similar molecular weight as ULK1 in human. ULK1 and ULK2 are thought to auto-phosphorylate the PS domain in vitro, and the significant homology among vertebrates suggest that ULK1 and ULK2 are involved in the regulation of fundamental biological processes .

Note: This product is for in vitro research use only