



Beclin-1 mouse Monoclonal Antibody(5C2)

Catalog No	YP-Ab-00126
Isotype	IgG
Reactivity	Human;Rat;Mouse;Bovine
Applications	WB;IHC;IF
Gene Name	BECN1
Immunogen	Synthetic Peptide of Beclin-1 at AA range of 110-190
Specificity	Beclin-1 protein detects endogenous levels of BECN1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	WB 1:1000-2000, IHC 1:100-200. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	BECN1;Beclin-1-C 37 kDa;Beclin-1-C 35 kDa;Beclin-1;Beclin1;Beclin 1
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Cytoplasm . Golgi apparatus, trans-Golgi network membrane ; Peripheral membrane protein . Endosome membrane ; Peripheral membrane protein . Endoplasmic reticulum membrane ; Peripheral membrane protein . Mitochondrion membrane ; Peripheral membrane protein . Endosome . Cytoplasmic vesicle, autophagosome . Interaction with ATG14 promotes translocation to autophagosomes. Expressed in dendrites and cell bodies of cerebellar Purkinje cells (By similarity). . ; [Beclin-1-C 35 kDa]: Mitochondrion . Nucleus . Cytoplasm . ; [Beclin-1-C 37 kDa]: Mitochondrion .
Tissue Specificity	Ubiquitous.
Function	function:Plays a central role in autophagy (By similarity). May play a role in antiviral host defense. Protects against infection by a neurovirulent strain of Sindbis virus.,similarity:Belongs to the beclin family.,subcellular location:Expressed in dendrites and cell bodies of cerebellar Purkinje cells.,subunit:Interacts with GOPC and GRID2. Interacts with AMBRA1. Probably forms a complex with AMBRA1 and PIK3C3 (By similarity). Interacts with BCL2



and BCL2L1.,tissue specificity:Ubiquitous.,

Background

beclin 1(BECN1) Homo sapiens This gene encodes a protein that regulates autophagy, a catabolic process of degradation induced by starvation. The encoded protein is a component of the phosphatidylinositol-3-kinase (PI3K) complex which mediates vesicle-trafficking processes. This protein is thought to play a role in multiple cellular processes, including tumorigenesis, neurodegeneration and apoptosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015],

matters needing attention

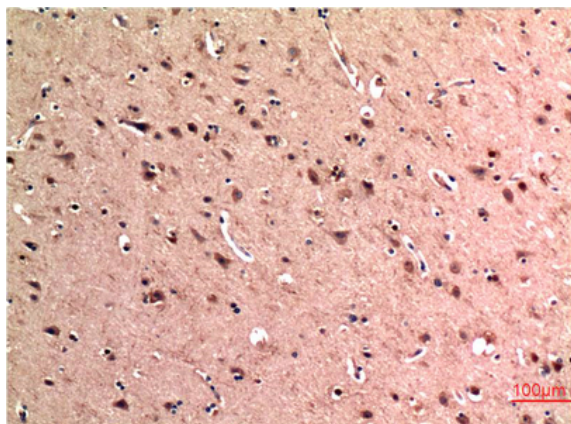
Avoid repeated freezing and thawing!

Usage suggestions

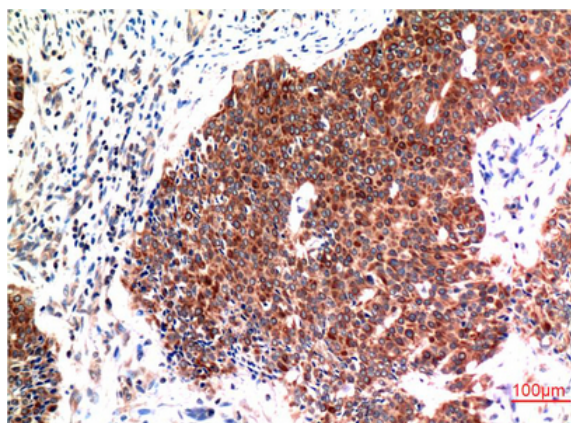
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



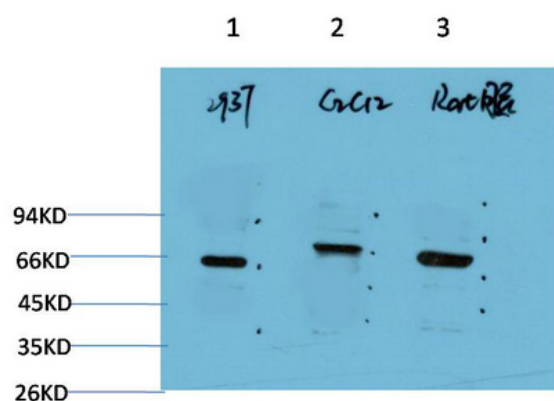
Products Images



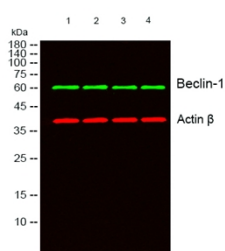
Immunohistochemical analysis of paraffin-embedded Human Brain Tissue using Beclin-1 Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma Tissue using Beclin-1 Mouse mAb diluted at 1:200.



Western blot analysis of 1) 293T Cell Lysate, 2) C2C12 Cell Lysate, 3) Rat Brain Tissue Lysate using Beclin-1 Mouse mAb diluted at 1:2000.



Western blot analysis of lysates from 1) 293T Cell Lysate, 2) C2C12 Cell Lysate, 3) Rat Brain Tissue cells, (Green) primary antibody was diluted at 1:1000, 4 °over night, secondary antibody(cat:RS23910)was diluted at 1:10000, 37° 1hour. (Red) Actin β Polyclona Antibody (cat:YT0099) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23720)was diluted at 1:10000, 37° 1hour.