

Anti-Beclin-1 Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Rabbit)
Molecular Weight:	Theoretical: 60 kDa. Actual: 56 kDa.
Purification:	Protein A purified

Applications

1. Sample:

Lane 1: Cerebrum (Mouse) Lysate at 40 µg

Lane 2: Small intestine (Mouse) Lysate at 40 µg

Lane 3: Lung (Mouse) Lysate at 40 µg

Lane 4: Heart (Mouse) Lysate at 40 µg

Lane 5: Cerebrum (Rat) Lysate at 40 µg

Lane 6: Jurkat (Human) Cell Lysate at 30 µg

Lane 7: Raji (Human) Cell Lysate at 30 µg

Lane 8: Hela (Human) Cell Lysate at 30 µg

Lane 9: A431 (Human) Cell Lysate at 30 µg

Lane 10: HepG2 (Human) Cell Lysate at 30 µg

Primary: Anti-Beclin 1 (TMAB-00210) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55-60 kDa

Observed band size: 60 kDa

Verified Activity:

2. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Beclin 1) Polyclonal Antibody, Unconjugated (TMAB-00210) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

3. Paraformaldehyde-fixed, paraffin embedded (Mouse small intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Beclin 1) Polyclonal Antibody, Unconjugated (TMAB-00210) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Beclin 1) Polyclonal Antibody, Unconjugated (TMAB-00210) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded (rat lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Beclin 1) Polyclonal Antibody, Unconjugated (TMAB-00210) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

A DRUG SCREENING EXPERT

Application: IF,IHC-Fr,IHC-P,WB

Recommended IF=1:100-500; IHC-Fr=1:400-800; IHC-P=1:400-800; WB=1:500-1000

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: KLH conjugated synthetic peptide: human BECN1

Antigen Species: Human

Gene ID: 8678

Uniprot ID: Q14457

Synonyms: Coiled-coil myosin-like BCL2-interacting protein;BECN1;Protein GT197;Beclin-1;GT197

Biology Area: Signal Transduction,Tumor suppressors,Autophagy,Tumor Suppressors,Autophagy and mitophagy,Host Immune Response

Research Background

Beclin 1 is the first identified mammalian gene to mediate autophagy and also has tumor suppressor and antiviral function. Autophagy, a process of bulk protein degradation through an autophagosomic lysosomal pathway, is important for differentiation, survival during nutrient deprivation, and normal growth control, and is often defective in tumor cells. Beclin 1 was originally isolated in a yeast two hybrid screen to identify Bcl 2 binding partners and maps to a tumor susceptibility locus on human chromosome 17q21 that is frequently monoallelically deleted in human breast, ovarian and prostate cancer. Beclin 1 encodes an evolutionarily conserved 52kDa coiled coil protein that is expressed in human muscle, epithelial cells and neurons.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481