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[KO Validated] ATG5 Rabbit mAb

Catalog No.: A19677 KO Validated Recombinant 32 Publications

Basic Information

Observed MW
55kDa

Calculated MW
32kDa

Category
Primary antibody

Applications
WB,IF-P,IHC-P,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC0156

Background

The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. Several transcript variants encoding different protein isoforms have been found for this gene.

Recommended Dilutions

WB	1:1000 - 1:6000
IF-P	1:200 - 1:400
IHC-P	1:200 - 1:2000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
9474

Swiss Prot
Q9H1Y0

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
ASP; APG5; APG5L; hAPG5; SCAR25; APG5-LIKE; G5

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

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Validation Data

Immunoprecipitation analysis of 300 µg extracts from 293T cells using 3 µg [KO Validated] ATG5 Rabbit mAb (A19677). Western blot was performed from the immunoprecipitate using [KO Validated] ATG5 Rabbit mAb (A19677) at a dilution of 1:1000.

Western blot analysis of lysates from wild type (WT) and ATG5 knockout (KO) 293T cells, using [KO Validated] ATG5 Rabbit mAb (A19677) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

Western blot analysis of various lysates using [KO Validated] ATG5 Rabbit mAb (A19677) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

Validation Data

Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using [KO Validated] ATG5 Rabbit mAb (A19677) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KO Validated] ATG5 Rabbit mAb (A19677) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human colon tissue using [KO Validated] ATG5 Rabbit mAb (A19677) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using [KO Validated] ATG5 Rabbit mAb (A19677) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using [KO Validated] ATG5 Rabbit mAb (A19677) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded rat colon tissue using [KO Validated] ATG5 Rabbit mAb (A19677) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Confocal imaging of paraffin-embedded Human colon cancer tissue using [KO Validated] ATG5 Rabbit mAb (A19677, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Rat colon tissue using [KO Validated] ATG5 Rabbit mAb (A19677, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Confocal imaging of paraffin-embedded Human colon tissue using [KO Validated] ATG5 Rabbit mAb (A19677, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Validation Data

Confocal imaging of paraffin-embedded Mouse colon tissue using [KO Validated] ATG5 Rabbit mAb (A19677, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

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