

# Product Datasheet

## ATG5 Antibody - BSA Free NBP2-24389

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 7

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**NBP2-24389**

ATG5 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

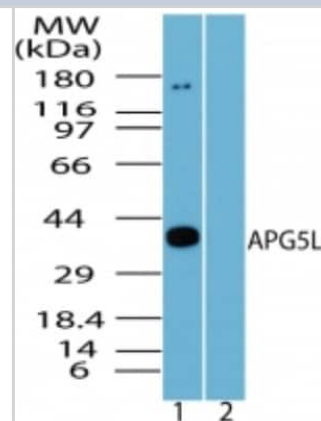
Product Description	
Description	Novus Biologicals Rabbit ATG5 Antibody - BSA Free (NBP2-24389) is a polyclonal antibody validated for use in IHC and WB. Anti-ATG5 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	9474
Gene Symbol	ATG5
Species	Human, Mouse, Rat, Porcine, Bovine
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: 100% homologous in Opossum, Equine, Canine, Monkey, Chimpanzee; Xenopus (80%).
Immunogen	This ATG5 antibody is made against a portion of amino acid 1-50 of human APG5L.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.5 - 2 ug/mL, Immunohistochemistry 5 ug/mL, Immunohistochemistry-Paraffin 5 ug/mL
Application Notes	The optimal dilution should be determined by the end user.

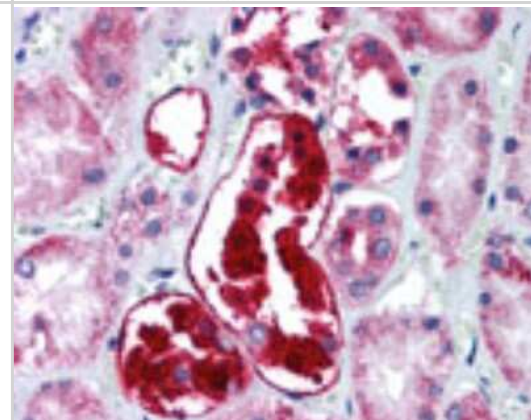


## Images

Western Blot: ATG5 Antibody [NBP2-24389] - Western blot analysis of human APGL5 in T98G cell lysate in 1) absence, 2) presence of immunizing peptide using this antibody at 1 ug/mL.



Immunohistochemistry-Paraffin: ATG5 Antibody [NBP2-24389] - Immunohistochemistry analysis of human kidney using this antibody at 5 ug/mL.



## Publications

Wang Y, Lyu L, Vu T et al. TRIM44 enhances autophagy via SQSTM1 oligomerization in response to oxidative stress *Sci Rep* 2024-08-16 [PMID: 39152142]

Kallergi E, Siva Sankar D, Matera A et al. Profiling of purified autophagic vesicle degradome in the maturing and aging brain *Neuron* 2023-05-26 [PMID: 37279748] (WB, Mouse)

Details:  
WB 1:1000

Wen Y, Chen Z, Tian Y et al. Incomplete autophagy promotes the proliferation of *Mycoplasma hyopneumoniae* through the JNK and Akt pathways in porcine alveolar macrophages *Veterinary research* 2022-08-04 [PMID: 35927699] (WB, Porcine)

Lyu L, Chen Z, McCarty N TRIM44 links the UPS to SQSTM1/p62-dependent aggrephagy and removing misfolded proteins *Autophagy* 2021-08-12 [PMID: 34382902] (WB, Human)

Wang Z, Wen Y, Zhou B et al. Incomplete autophagy promotes the replication of *Mycoplasma hyopneumoniae* *Journal of microbiology* (Seoul, Korea) 2021-08-01 [PMID: 34219210]

Bandyopadhyaya A, Tzika AA, Rahme LG *Pseudomonas aeruginosa* Quorum Sensing Molecule Alters Skeletal Muscle Protein Homeostasis by Perturbing the Antioxidant Defense System *MBio* 2019-10-01 [PMID: 31575771] (WB, Mouse)

Herrema H, Zhou Y, Zhang D et al. XBP1s is an antilipogenic protein. *J. Biol. Chem.* 2016-06-20 [PMID: 27325692] (WB)

## Procedures

### Western Blot Protocol for ATG5 Antibody (NBP2-24389)

#### Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturer's instructions.

### Immunohistochemistry-Paraffin Protocol for ATG5 Antibody (NBP2-24389)

#### Immunohistochemistry-Paraffin Embedded Sections

##### Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer at all times).

##### Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.





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### **Products Related to NBP2-24389**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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