

Product Datasheet

GABARAP Antibody - BSA Free NBP1-71771

Unit Size: 0.1 ml

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

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NBP1-71771

GABARAP Antibody - BSA Free

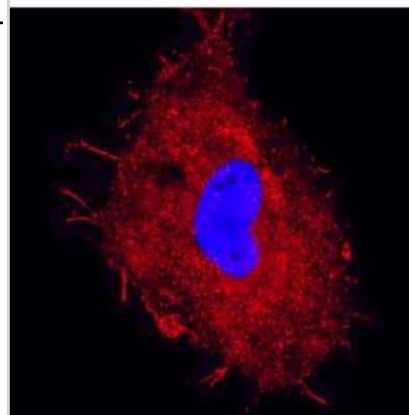
Product Information	
Unit Size	0.1 ml
Concentration	1.11 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol

Product Description	
Host	Rabbit
Gene ID	11337
Gene Symbol	GABARAP
Species	Human, Mouse, Drosophila
Reactivity Notes	Predicted to react with rat based on 100% sequence homology. Drosophila reactivity reported in scientific literature (PMID: 28779125).
Immunogen	A synthetic peptide made to a C-terminal region of the human GABARAP protein (within residues 50-117). [Swiss-Prot O95166]

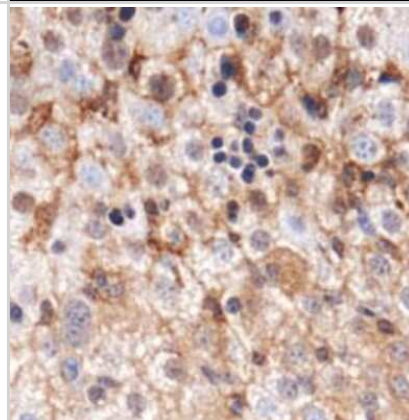
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:200
Application Notes	This GABARAP antibody is useful for ICC/IF and IHC-P. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

Images

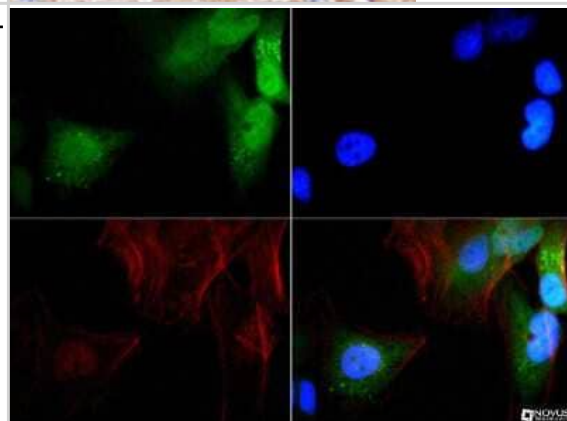
Immunocytochemistry/Immunofluorescence: GABARAP Antibody [NBP1-71771] - analysis of GABARAP in Raw 264.7 cells using anti-GABARAP antibody (red). Nuclei were counterstained with DAPI (blue).



Immunohistochemistry: GABARAP Antibody [NBP1-71771] - Analysis of GABARAP in mouse liver using DAB with hematoxylin counterstain.



Immunocytochemistry/Immunofluorescence: GABARAP Antibody [NBP1-71771] - GABARAP antibody was tested in HeLa cells with FITC (green). Nuclei and actin were counterstained with Dapi (blue) and Phalloidin (red).



Publications

Wei Y, Chiang W C et al. Prohibitin 2 Is an Inner Mitochondrial Membrane Mitophagy Receptor. Cell 2017-12-01 [PMID: 28017329] (WB, Human)

Lee DH, Park SH, Ahn J et al. Nudt21-mediated alternative polyadenylation of HMGA2 3'-UTR impairs stemness of human tendon stem cell Autophagy 2020-09-26 [PMID: 33078654] (WB, Human)

An PNT, Shimaji K, Tanaka R et al. Epigenetic regulation of starvation-induced autophagy in Drosophila by histone methyltransferase G9a Sci Rep 2017-08-04 [PMID: 28779125] (ICC/IF, Drosophila)

Procedures

Immunohistochemistry-Paraffin protocol for GABARAP Antibody (NBP1-71771)

GABARAP Antibody:

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.

Staining:

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

Immunocytochemistry/Immunofluorescence protocol for GABARAP Antibody (NBP1-71771)

GABARAP Antibody:

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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Products Related to NBP1-71771

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-71771B	GABARAP Antibody [Biotin]

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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