

Product Datasheet

Exosome Component 9 Antibody - BSA Free NBP1-71702

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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NBP1-71702

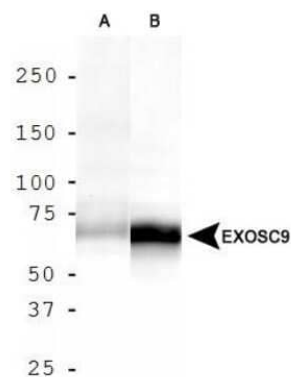
Exosome Component 9 Antibody - BSA Free

| Product Information | |
|-----------------------------|---|
| Unit Size | 0.1 ml |
| 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 | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Immunogen affinity purified |
| Buffer | PBS |
| Product Description | |
| Host | Rabbit |
| Gene ID | 5393 |
| Gene Symbol | EXOSC9 |
| Species | Human, Mouse, Chicken |
| Reactivity Notes | Immunogen has 83% identity to rat and 90% identity to bovine. |
| Immunogen | Partial recombinant protein made to an internal region of human Exosome Component 9 (within residues 250-439). [Swiss-Prot Q06265] |
| Notes | Manufactured by Genomic Antibody Technology™. GAT FAQs |
| Product Application Details | |
| Applications | Western Blot, Simple Western, Chromatin Immunoprecipitation, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP) |
| Recommended Dilutions | Western Blot 1:5000, Simple Western 1:1000, Chromatin Immunoprecipitation reported in scientific literature (PMID 27543448), Immunohistochemistry 1:50-1:100, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation reported by customer review, Immunohistochemistry-Paraffin 1:50-1:100, Chromatin Immunoprecipitation (ChIP) |
| Application Notes | <p>In Western blot, a band is seen ~75 kDa. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See Simple Western Antibody Database for Simple Western validation: Tested in HepG2 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:1000, apparent MW was 62 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> |

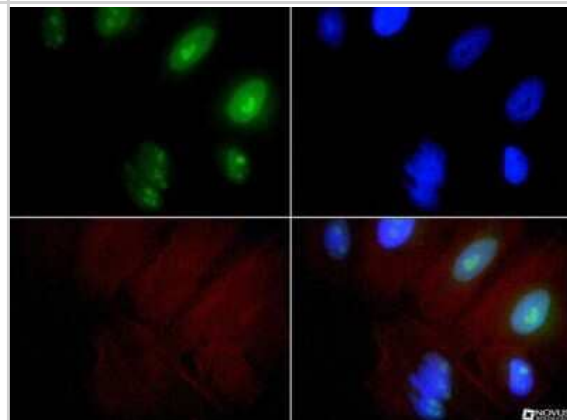


Images

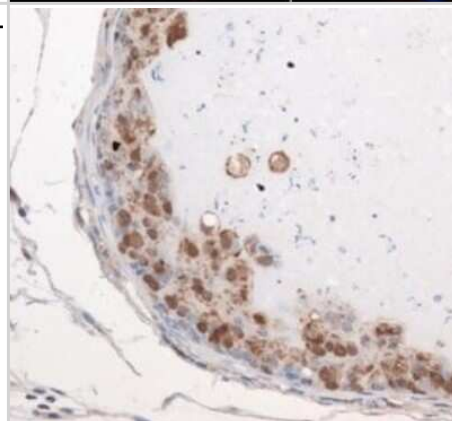
Western Blot: Exosome Component 9 Antibody [NBP1-71702] - Analysis of EXOSC9 in A. HepG2 cell lysate and B. MCF7 cell lysate.



Immunocytochemistry/Immunofluorescence: Exosome Component 9 Antibody [NBP1-71702] - EXOSC9 antibody was tested at 1:100 in HeLa cells with FITC (green). Nuclei and actin were counterstained with Dapi (blue) and Phalloidin (red).



Immunohistochemistry: Exosome Component 9 Antibody [NBP1-71702] - Staining of EXOSC9 in mouse prostate.



Simple Western: Exosome Component 9 Antibody [NBP1-71702] - Simple Western lane view shows a specific band for Exosome Component 9 in 0.5 mg/ml of HepG2 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Morales JC, Richard P, Patidar PL et al. XRN2 Links Transcription Termination to DNA Damage and Replication Stress PLoS Genet. 2016-07-01 [PMID: 27437695]

McIver SC, Katsumura KR, Davids E et al. Exosome complex orchestrates developmental signaling to balance proliferation and differentiation during erythropoiesis. Elife. 2016-08-20 [PMID: 27543448] (Chemotaxis, Mouse)

Hsin JP, Li W, Hoque M et al. RNAP II CTD tyrosine 1 performs diverse functions in vertebrate cells. Elife (Cambridge) 2014-06-04 [PMID: 24842995] (WB, Chicken)

Details:

EXOSC3 antibody used for WB on lysates of 26r (DT40 cells derived Rpb1 derivative containing a CTD with 26 YSPTSPS repeats) and 25F+Y cells (Rpb1-Y1F derivative in which only a single F, in the C terminal-most heptad, was changed back to Y). WB data shown in Supplement Figure 4.

Richard P, Feng S, Manley JL. A SUMO-dependent interaction between Senataxin and the exosome, disrupted in the neurodegenerative disease AOA2, targets the exosome to sites of transcription-induced DNA damage. Genes Dev. 2013-10-15 [PMID: 24105744] (WB, Human)



Procedures

Western Blot protocol specific for EXOSC9 antibody (NBP1-71702)

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 Exosome Component 9 Antibody (NBP1-71702)

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.



Immunocytochemistry/ Immunofluorescence Protocol for Exosome Component 9 Antibody (NBP1-71702)
Immunocytochemistry Protocol

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

1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
2. Remove the formalin and wash the cells in PBS.
3. Permeablize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
4. Remove the permeablization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
10. Counter stain DNA with DAPI if required.





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Products Related to NBP1-71702

| | |
|------------|---|
| NBP1-42569 | HepG2 Whole Cell Lysate |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

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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