

Product Datasheet

GRP78/HSPA5 Antibody - BSA Free NB100-56411

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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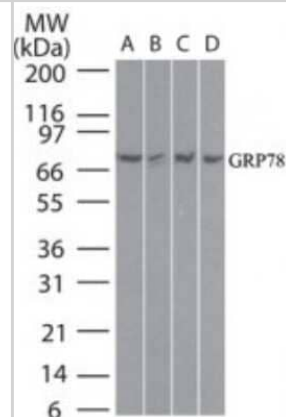
NB100-56411

GRP78/HSPA5 Antibody - BSA Free

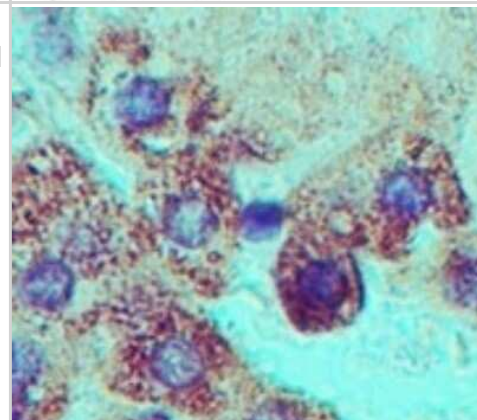
| Product Information | |
|-----------------------------|--|
| Unit Size | 0.1 mg |
| Concentration | 1.0 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Protein G purified |
| Buffer | PBS |
| Product Description | |
| Host | Rabbit |
| Gene ID | 3309 |
| Gene Symbol | HSPA5 |
| Species | Human, Mouse |
| Reactivity Notes | Predicted to react with Chimpanzee, Canine, Macaque, Rat, Xenopus and Zebrafish. |
| Marker | ER Stress Marker |
| Immunogen | A portion of amino acids 550-600 of human GRP78 was used as the immunogen. |
| Product Application Details | |
| Applications | Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot 1-3 ug/ml, Simple Western 1:250, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:500. Use reported in scientific literature (Egawa et al (2011)), Immunohistochemistry-Paraffin 5 ug/ml |
| Application Notes | In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:250, apparent MW was 77 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. |

Images

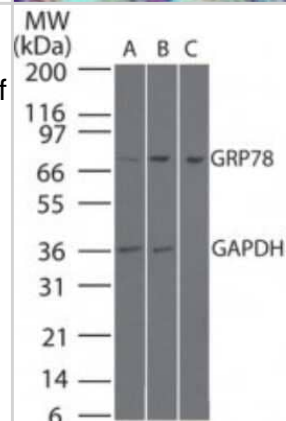
Western Blot: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in A) HeLa, B) human liver, C) mouse liver, and D) rat liver lysate using NB100-56411 at 2 ug/ml. Goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were use for this test.



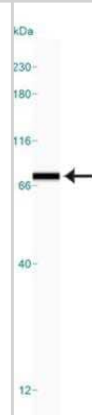
Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in formalin-fixed, paraffin-embedded mouse liver tissue using this antibody at 5 ug/ml.



Western Blot: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in mouse liver tissue enriched using Endoplasmic Reticulum Enrichment Kit and 1 ug/ml of NB100-56411 and 0.25 ug/ml of anti-GAPDH loading control. Lane A contains 20 ugs of whole mouse liver lysate, lane B contains 20 ugs of total ER fraction, and lane C contains 20 ugs of rough ER fraction.



Simple Western: GRP78/HSPA5 Antibody [NB100-56411] - Simple Western lane view shows a specific band for GRP78/HSPA5 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system.



Publications

Li T, Yang Y, Li Y et al. Platelets mediate inflammatory monocyte activation by SARS-CoV-2 Spike protein The Journal of clinical investigation 2021-12-29 [PMID: 34964720] (WB, Human)

Panaretakis Theocharis, Kepp Oliver, Brockmeier Ulf et al. Mechanisms of pre-apoptotic calreticulin exposure in immunogenic cell death. EMBO J. 2009-03-04 [PMID: 19165151] (Human)

Egawa N, Yamamoto K, Inoue H et al. The endoplasmic reticulum stress sensor, ATF6a, protects against neurotoxin-induced dopaminergic neuronal death. J Biol Chem. 2011-03-11 [PMID: 21131360] (WB, ICC/IF, Mouse)

Details:

BiP/GRP78 (IMG-5228A). WB & IF/ICC: Mouse midbrain or striatum from ATF6 alpha WT +/+ or ATF6 alpha kO -/- mice, Fig 2B.

Sharma A, Masri J, Jo OD et al. Protein kinase C regulates internal initiation of translation of the GATA-4 mRNA following vasopressin-induced hypertrophy of cardiac myocytes. J Biol Chem. 2007-03-30 [PMID: 17284439] (WB)

Details:

BiP/GRP78 (IMG-5228A). WB: H9c2 ventricular cardiomyocytes treated with arginine vasopressin (AVP), Fig 8A.





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Products Related to NB100-56411

| | |
|--------------------|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| H00003309-P01-10ug | Recombinant Human GRP78/HSPA5 GST (N-Term) Protein |

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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