## **Product Datasheet**

### HspA1B Antibody (3B7) - Azide and BSA Free H00003304-M02

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 2/21/2025 v.20.1

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#### H00003304-M02

HspA1B Antibody (3B7) - Azide and BSA Free

0.1 mg
Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Monoclonal
3B7
No Preservative
IgG2a Kappa
IgG purified
In 1x PBS, pH 7.4
Quality control test: Antibody Reactive Against Recombinant Protein.
Mouse
3304
HSPA1B
Human, Mouse, Rat, Porcine, Bovine
Bovine reactivity reported in scientific literature (PMID: 26344128). Porcine reactivity reported in scientific literature (PMID: 24862986). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
HSPA1B (3B7)
HSPA1B (NP_005336, 531 a.a. ~ 611 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. VQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDA NTLAEKDEFEHKRKELEQVCNPIISGLY
This product is produced by and distributed for Abnova, a company based in Taiwan.
Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Proximity Ligation Assay
Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Proximity Ligation Assay, Dot Blot
Antibody reactivity against cell lysate and recombinant protein for WB. Use in Dot blot reported in scientific literature (PMID: 26344128).



Images Western Blot: HspA1B Antibody (3B7) [H00003304-M02] - HSPA1B 258= monoclonal antibody (M02), clone 3B7. Analysis of HSPA1B expression 100in NIH/3T3. 75 -50 -37 -25-20-15-10-G Hspat Immunocytochemistry/Immunofluorescence: HspA1B Antibody (3B7) [H00003304-M02] - Validation of the LCM/MS data from cellular protrusions using microscopy. Immunofluorescence (IF) of proteins identified by LCM/MS not expected to be within protrusions based on their known functions/localizations. HspA1B was observed in dCAD protrusions and TNTs. White arrows/arrowheads show punctates within dCAD/hCAD protrusions and GCs or within TNTs, respectively. Scale bars = 10 um. CAD = Cath.A differentiated neuronal cell line; dCAD = serum-strarved differentiated CAD; TNT = Tunneling nanotube.Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/30866487/) licensed under a CC-BY license. Immunohistochemistry-Paraffin: HspA1B Antibody (3B7) [H00003304-M02] - Analysis of monoclonal antibody to HSPA1B on formalin-fixed paraffin-embedded human testis. Antibody concentration 6 ug/ml. Western Blot: HspA1B Antibody (3B7) [H00003304-M02] - HSPA1B 258= monoclonal antibody (M02), clone 3B7. Analysis of HSPA1B expression 100in PC-12. 75 -50 -37 -25-20-15-

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10-

	Page 3 of 5 v.20.1 Updated 2/21/2025
Western Blot: HspA1B Antibody (3B7) [H00003304-M02] - HSPA1B monoclonal antibody (M02), clone 3B7 Analysis of HSPA1B expression in IMR-32.	250 - 150 - 100 - 75 - 50 - 37 - 25 - 20 - 15 -
Western Blot: HspA1B Antibody (3B7) [H00003304-M02] - HSPA1B monoclonal antibody (M02), clone 3B7. Analysis of HSPA1B expression in Raw 264.7.	10- 758= 100- 75- 50- 37- 25- 20- 15- 10-
Immunocytochemistry/Immunofluorescence: HspA1B Antibody (3B7) [H00003304-M02] - Analysis of monoclonal antibody to HSPA1B on HeLa cell. Antibody concentration 10 ug/ml.	200 µm
Proximity Ligation Assay: HspA1B Antibody (3B7) [H00003304-M02] - Analysis of protein-protein interactions between TP53 and HSPA1B. HeLa cells were stained with anti-TP53 rabbit purified polyclonal 1:1200 and anti-HSPA1B mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).	



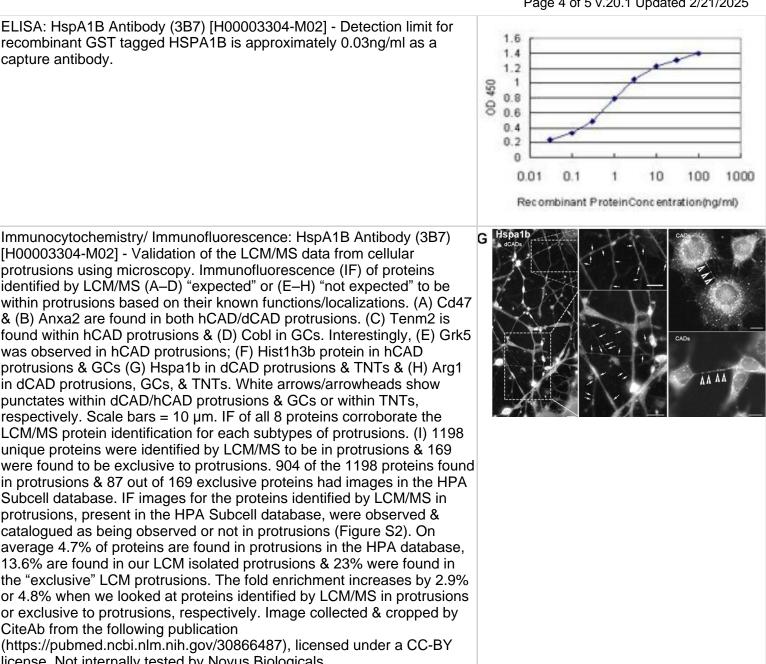
ELISA: HspA1B Antibody (3B7) [H00003304-M02] - Detection limit for recombinant GST tagged HSPA1B is approximately 0.03ng/ml as a capture antibody.

[H00003304-M02] - Validation of the LCM/MS data from cellular protrusions using microscopy. Immunofluorescence (IF) of proteins

was observed in hCAD protrusions; (F) Hist1h3b protein in hCAD

in dCAD protrusions, GCs, & TNTs. White arrows/arrowheads show punctates within dCAD/hCAD protrusions & GCs or within TNTs, respectively. Scale bars =  $10 \mu m$ . IF of all 8 proteins corroborate the

protrusions, present in the HPA Subcell database, were observed & catalogued as being observed or not in protrusions (Figure S2). On



#### **Publications**

CiteAb from the following publication

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Gousset K, Gordon A, Kumar Kannan S, Tovar J. A novel Microproteomic Approach Using Laser Capture Microdissection to Study Cellular Protrusions Int J Mol Sci 2019-03-07 [PMID: 30866487] (ICC/IF, Mouse)

Gagaoua M, Terlouw EMC, Picard B. et al. The study of protein biomarkers to understand the biochemical processes underlying beef color development in young bulls. Meat Sci 2017-07-18 [PMID: 28750331]

Guillemin N, Bonnet M, Jurie C et al. Functional analysis of beef tenderness. J Proteomics 2011-08-09 [PMID: 218556651

Picard B, Gagaoua M, Micol D et al. Inverse relationships between biomarkers and beef tenderness according to contractile and metabolic properties of the muscle. J Agric Food Chem 2014-08-24 [PMID: 25175407]

Gagaoua M, Terlouw EMC, Boudjellal A, Picard B. Coherent correlation networks among protein biomarkers of beef tenderness: What they reveal. Journal of proteomics 2015-10-14 [PMID: 26344128] (WB, Cytometric Bead Assay Standard, Bovine)

Hossain MA, De Souza AI, Bagul A et al. HSP70, Peroxiredoxin-3 and -6 are upregulated during renal warm ischaemia in a donation after circulatory death model. J Proteomics. 2014-05-24 [PMID: 24862986] (WB, Porcine)





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#### Products Related to H00003304-M02

H00003304-Q01-10ug	Recombinant Human HspA1B GST (N-Term) Protein
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]

#### 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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