

# Product Datasheet

## HO-1/HMOX1/HSP32 Antibody - BSA Free NBP1-31341

Unit Size: 0.1 ml

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

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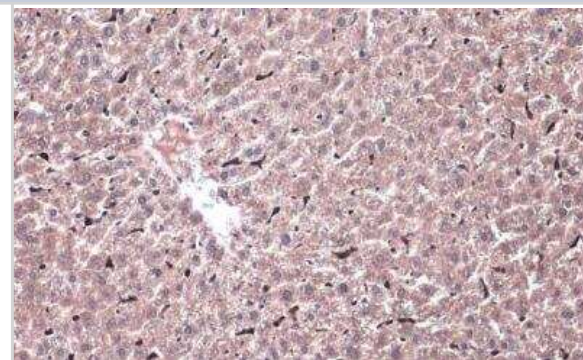
**NBP1-31341**

HO-1/HMOX1/HSP32 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS (pH 7), 20% Glycerol
Target Molecular Weight	33 kDa
Product Description	
Host	Rabbit
Gene ID	3162
Gene Symbol	HMOX1
Species	Human, Mouse, Rat, Monkey
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Canine (85%), Porcine (82%), Bovine (83%).
Marker	Oxidative Stress Marker
Immunogen	Recombinant protein encompassing a sequence within the center region of human HO-1/HMOX1/HSP32. The exact sequence is proprietary.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA, Knockout Validated
Recommended Dilutions	Western Blot 1:500-1:3000, ELISA Assay dependent, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Sandwich ELISA Assay dependent, Knockout Validated

**Images**

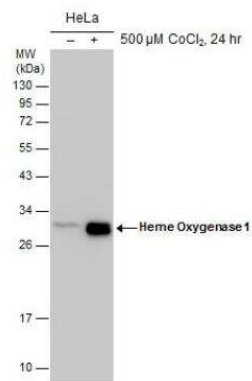
Immunohistochemistry-Paraffin: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Mouse liver. Heme Oxygenase 1 stained by Heme Oxygenase 1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



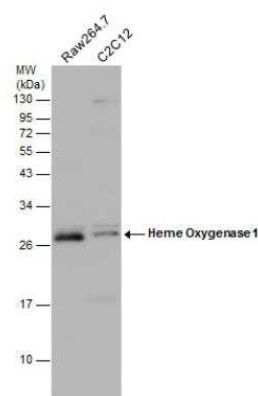
Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Analysis of HO-1 in HEK293 cell lysate using anti-HO-1 antibody. WB Image submitted by a verified customer review.



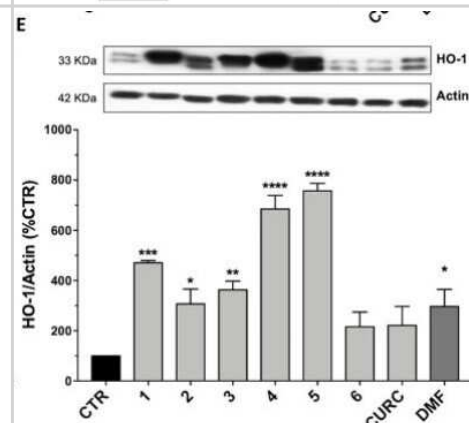
Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Untreated (-) and treated (+) HeLa whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with Heme Oxygenase 1 antibody.



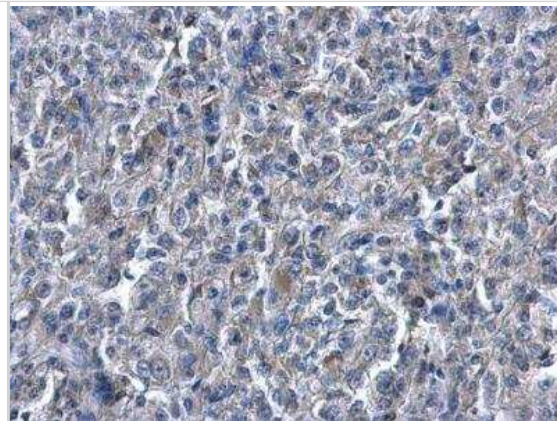
Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Various whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with Heme Oxygenase 1 antibody diluted at 1:1500.



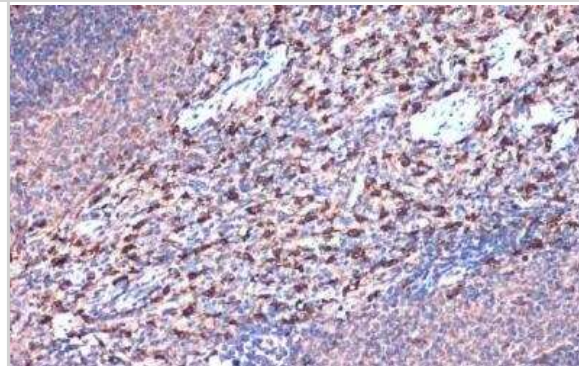
Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Nrf2-pathway activation by hybrids: nuclear translocation and targets induction. Protein levels by Western blot. Anti-actin was used as protein loading control. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/32047434/](https://pubmed.ncbi.nlm.nih.gov/32047434/)) licensed under a CC-BY license.



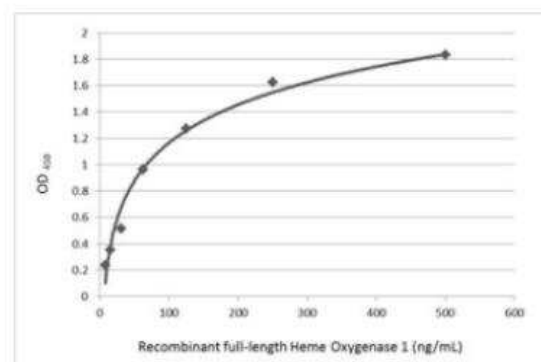
Immunohistochemistry-Paraffin: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Human renal carcinoma . Heme Oxygenase 1 antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



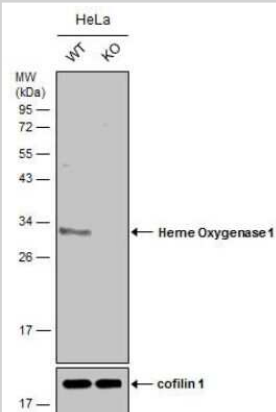
Immunohistochemistry-Paraffin: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Rat spleen. Heme Oxygenase 1 stained by Heme Oxygenase 1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



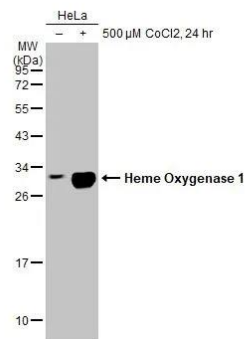
ELISA: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - ELISA detection of recombinant full-length Heme Oxygenase 1 protein using as capture antibody at concentration of 5 ug/mL and as detection antibody at concentration of 1 ug/mL. Rabbit IgG antibody (HRP) (NBP2-19301) was diluted at 1:10000 and used to detect the primary antibody.



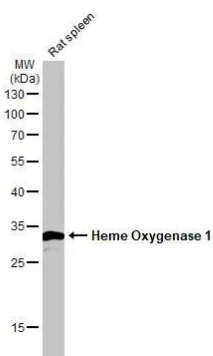
Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Wild-type (WT) and Heme Oxygenase 1 knockout (KO) HeLa cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with Heme Oxygenase 1 antibody. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



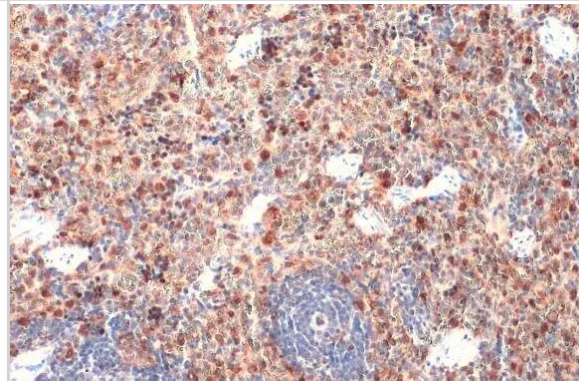
Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Untreated (-) and treated (+) HeLa whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with HO-1/HMOX1/HSP32 antibody (NBP1-31341) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



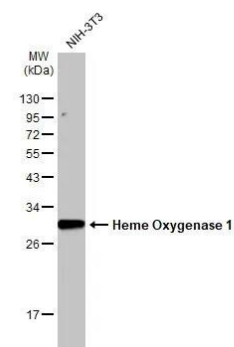
Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Rat tissue extract (50 ug) was separated by 12% SDS-PAGE, and the membrane was blotted with HO-1/HMOX1/HSP32 antibody (NBP1-31341) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Immunohistochemistry-Paraffin: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - HO-1/HMOX1/HSP32 antibody detects HO-1/HMOX1/HSP32 protein at cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded mouse spleen. HO-1/HMOX1/HSP32 stained by HO-1/HMOX1/HSP32 antibody (NBP1-31341) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

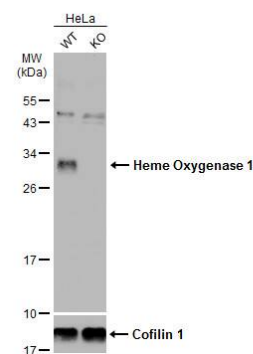


Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Whole cell extract (30 ug) was separated by 12% SDS-PAGE, and the membrane was blotted with HO-1/HMOX1/HSP32 antibody (NBP1-31341) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.





Western Blot: HO-1/HMOX1/HSP32 Antibody [NBP1-31341] - Wild-type (WT) and Heme Oxygenase 1 knockout (KO) HeLa cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with Heme Oxygenase 1 antibody diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



## Publications

Catanzaro M, Lanni C, Basagni F et al. Eye-Light on Age-Related Macular Degeneration: Targeting Nrf2-Pathway as a Novel Therapeutic Strategy for Retinal Pigment Epithelium Front Pharmacol 2020-06-05 [PMID: 32581803]

Fagiani F, Catanzaro M, Buoso E Targeting Cytokine Release Through the Differential Modulation of Nrf2 and NF- $\kappa$ B Pathways by Electrophilic/Non-Electrophilic Compounds Front Pharmacol 2020-09-14 [PMID: 32922294]

Vogtmann R, Burk LV, Serdar M et al. Systemic Maternal Human sFLT1 Overexpression Leads to an Impaired Foetal Brain Development of Growth-Restricted Foetuses upon Experimental Preeclampsia Oxidative medicine and cellular longevity 2022-06-02 [PMID: 35693702] (WB, Mouse)

Pambianchi E, Hagenberg Z, Pecorelli A Et al. Alaskan Bog Blueberry (*Vaccinium uliginosum*) Extract as an Innovative Topical Approach to Prevent UV-Induced Skin Damage Cosmetics 2021-11-27 (WB, Human)

Kovacevic S, Ivanov M, Zivotic M Et al. Immunohistochemical Analysis of 4-HNE, NGAL, and HO-1 Tissue Expression after Apocynin Treatment and HBO Preconditioning in Postischemic Acute Kidney Injury Induced in Spontaneously Hypertensive Rats Antioxidants (Basel) 2021-08-27 [PMID: 34439411] (IHC-P)

### Details:

This citation used the HRP format of this antibody.

Jing M, Cen Y, Gao F Et Al. Nephroprotective Effects of Tetramethylpyrazine Nitron TBN in Diabetic Kidney Disease Frontiers in pharmacology 2021-06-24 [PMID: 34248629] (WB)

Wen J, Li S, Zheng C et al. Tetramethylpyrazine nitron improves motor dysfunction and pathological manifestations by activating the PGC-1  $\alpha$ /Nrf2/HO-1 pathway in ALS mice Neuropharmacology 2020-11-01 [PMID: 33152451] (WB, Mouse)

Serafini M, Catanzaro M, Fagiani F et al. Modulation of Keap1/Nrf2/ARE Signaling Pathway by Curcuma- and Garlic-Derived Hybrids Front. Pharmacol. 2020-01-28 [PMID: 32047434] (WB, Human)

Rosini M, Simoni E, Caporaso R et al. Merging memantine and ferulic acid to probe connections between NMDA receptors, oxidative stress and amyloid-beta peptide in Alzheimer's disease Eur J Med Chem 2019-07-05 [PMID: 31301562] (Human)

Toy R, Pradhan P, Ramesh V et al. Selenium Deficiency Is Associated with Pro-longevity Mechanisms Cell Rep 2019-05-28 [PMID: 31141699] (WB, Mouse)

Mathew G, Sharma A, Pickering RJ et al. A novel synthetic small molecule DMFO targets Nrf2 in modulating proinflammatory/antioxidant mediators to ameliorate inflammation. Free Radic. Res. 2018-11-13 [PMID: 30422019] (ELISA, Mouse)

Moon Su-Jin, Kim Eun-Kyung, Jhun Joo Yeon et al. The active metabolite of leflunomide, A77 1726, attenuates inflammatory arthritis in mice with spontaneous arthritis via induction of heme oxygenase-1. Journal of Translational Medicine 2017-01-01 [PMID: 28193225] (ICC/IF, WB, Mouse)

More publications at <http://www.novusbio.com/NBP1-31341>



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### **Products Related to NBP1-31341**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-77459PEP	HO-1/HMOX1/HSP32 Antibody Blocking Peptide

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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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