

# Product Datasheet

## HMGA2 Antibody (763) - Azide and BSA Free NBP2-43640

Unit Size: 0.1 ml

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

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### Publications: 2

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**NBP2-43640**

HMGA2 Antibody (763) - Azide and BSA Free

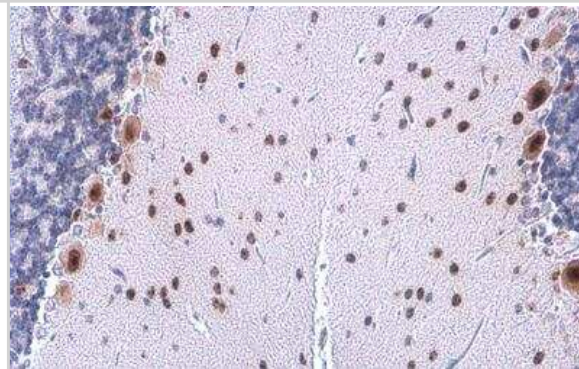
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	763
Preservative	No Preservative
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	12 kDa

Product Description	
Description	Novus Biologicals Mouse HMGA2 Antibody (763) - Azide and BSA Free (NBP2-43640) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-HMGA2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	8091
Gene Symbol	HMGA2
Species	Human, Mouse, Rat
Reactivity Notes	Zebrafish (85%), Xenopus laevis (80%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human HMGA2. The exact sequence is proprietary.

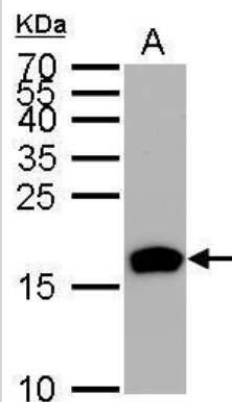
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000

**Images**

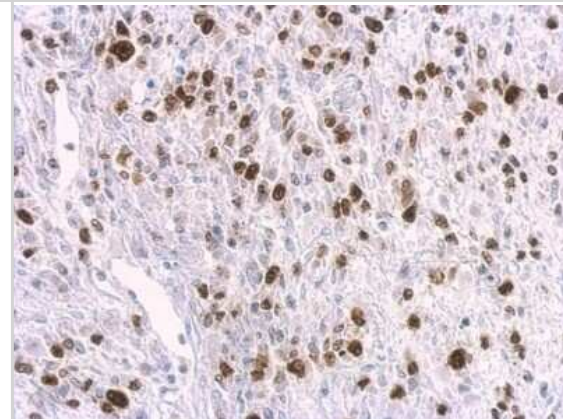
Immunohistochemistry-Paraffin: HMGA2 Antibody (763) [NBP2-43640] - Mouse brain. HMGA2 stained by HMGA2 antibody [763] diluted at 1:200. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



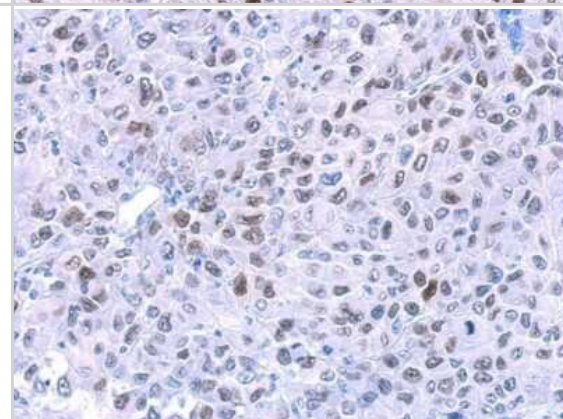
Western Blot: HMGA2 Antibody (763) [NBP2-43640] - Analysis of A. 30 ug HepG2 whole cell lysate/extract 15 % SDS-PAGE HMGA2 antibody [763] dilution: 1:1000



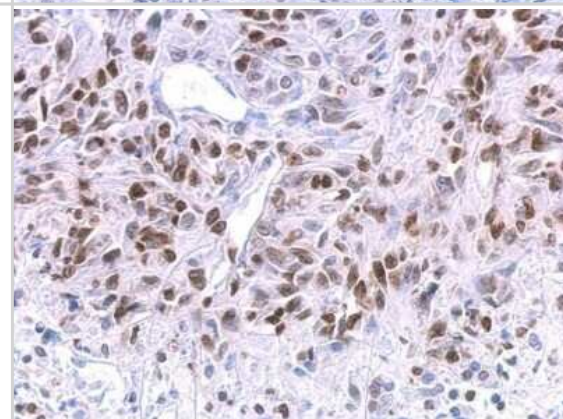
Immunohistochemistry-Paraffin: HMGA2 Antibody (763) [NBP2-43640] - C2C12. HMGA2 antibody [763] dilution: 1:200. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



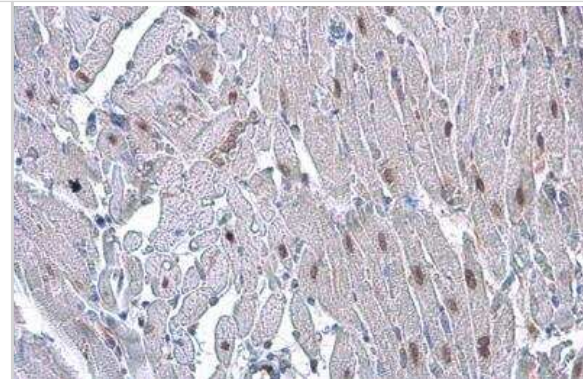
Immunohistochemistry-Paraffin: HMGA2 Antibody (763) [NBP2-43640] - RT2 xenograft. HMGA2 antibody [763] dilution: 1:200. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



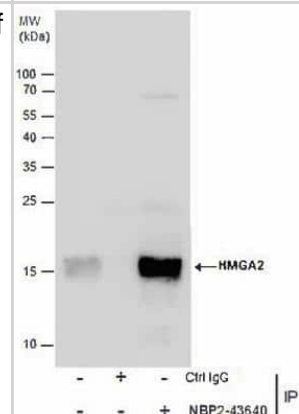
Immunohistochemistry-Paraffin: HMGA2 Antibody (763) [NBP2-43640] - SkHep1 xenograft. HMGA2 antibody [763] dilution: 1:200. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



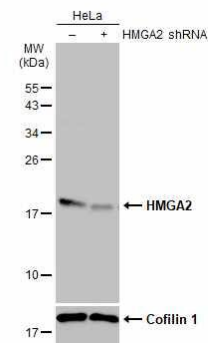
Immunohistochemistry-Paraffin: HMGA2 Antibody (763) [NBP2-43640] - Rat heart. HMGA2 stained by HMGA2 antibody [763] diluted at 1:200. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



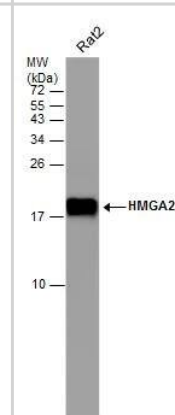
Immunoprecipitation: HMGA2 Antibody (763) [NBP2-43640] - Analysis of HMGA2 protein from HepG2 nuclear extracts using 5 ug of HMGA2 antibody [763]. Western blot analysis was performed using HMGA2 antibody [763]. EasyBlot anti-Rabbit IgG was used as a secondary reagent.



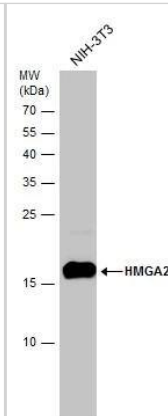
Western Blot: HMGA2 Antibody (763) [NBP2-43640] - Non-transfected (-) and transfected (+) HeLa whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with HMGA2 antibody [GT763] diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



Whole cell extract (30 ug) was separated by 15% SDS-PAGE, and the membrane was blotted with HMGA2 antibody [GT763] (NBP2-43640) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.



Whole cell extract (30 ug) was separated by 15% SDS-PAGE, and the membrane was blotted with HMGA2 antibody [GT763] (NBP2-43640) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody was used to detect the primary antibody.

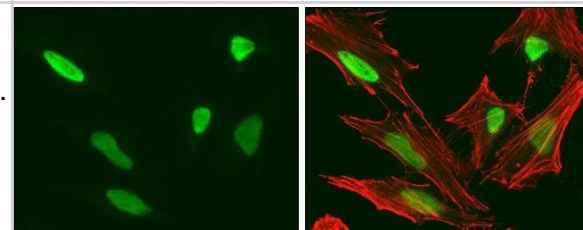


HMGA2 antibody [GT763] detects HMGA2 protein at nucleus by immunofluorescent analysis.

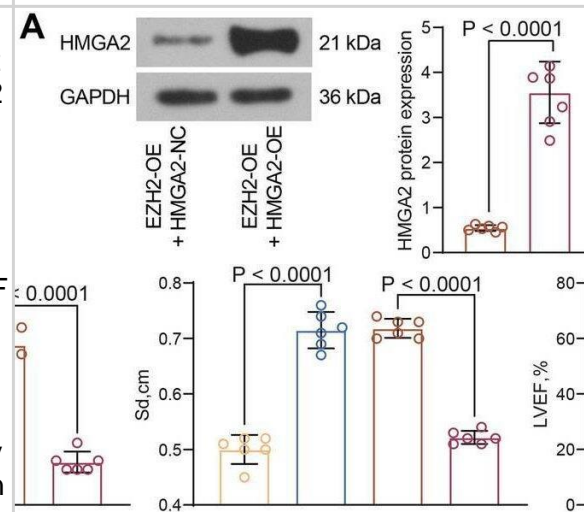
Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: HMGA2 protein stained by HMGA2 antibody [GT763] (NBP2-43640) diluted at 1:200.

Red: phalloidin, a cytoskeleton marker, diluted at 1:50.



EZH2/HMGA2 regulates the PI3K/AKT signaling. MI rats were subjected to injection of EZH2-OE or EZH2-NC (MI + MSC-EXO + EZH2 NC/EZH2 OE) and EZH2-OE + HMGA2-OE or EZH2-OE + HMGA2-NC. A HMGA2 protein expression in myocardial tissues in response to EZH2-OE + HMGA2-OE examined using western blot (Additional file 5: Fig. S5). B Weight change in rats after EZH2-OE + HMGA2-OE treatment. C Changes in HMI in rats after EZH2-OE + HMGA2-OE treatment. D Measurement of Dd, Sd, and LVEF by echocardiography at 2 weeks after LAD in rats. E Measurement of LVMI by echocardiography in rats. F KEGG pathway analysis of gene enrichment pathways [29]. G Changes in PI3K/AKT pathway in rat myocardium examined using western blot (Additional file 6: Fig. S6). All data are expressed as mean  $\pm$  SD (n = 6/group, \*p < 0.05 vs. Sham, DMSO, MI + MSC-EXO + EZH2-NC or EZH2-OE + HMGA2-NC group determined by unpaired t test or one-way ANOVA) Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35264108>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Jiao W, Hao J, Xie y et al. EZH2 mitigates the cardioprotective effects of mesenchymal stem cell-secreted exosomes against infarction via HMGA2-mediated PI3K/AKT signaling BMC cardiovascular disorders 2022-03-09 [PMID: 35264108] (WB, Rat)

Kondo Y, Hirabayashi K, Carreras J et al. The significance of tyrosine kinase receptor B and brain-derived neurotrophic factor expression in salivary duct carcinoma Biomed Mater 2020-11-26 [PMID: 33248386] (IF/IHC, Human)



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### **Products Related to NBP2-43640**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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