

# Product Datasheet

## MDH2 Antibody NBP1-32259

Unit Size: 0.1 ml

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

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Updated 9/9/2025 v.20.1

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**NBP1-32259**

## MDH2 Antibody

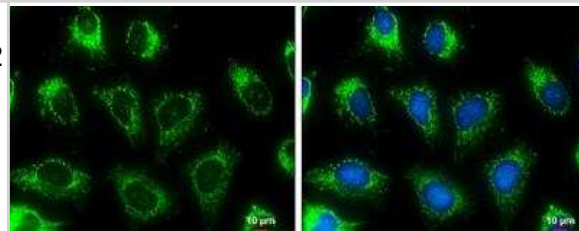
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 1% BSA, 20% Glycerol
<b>Target Molecular Weight</b>	36 kDa

Product Description	
<b>Description</b>	Novus Biologicals Knockout (KO) Validated Rabbit MDH2 Antibody (NBP1-32259) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-MDH2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	4191
<b>Gene Symbol</b>	MDH2
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Xenopus laevis (91%), Cat (95%).
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of human MDH2. The exact sequence is proprietary.

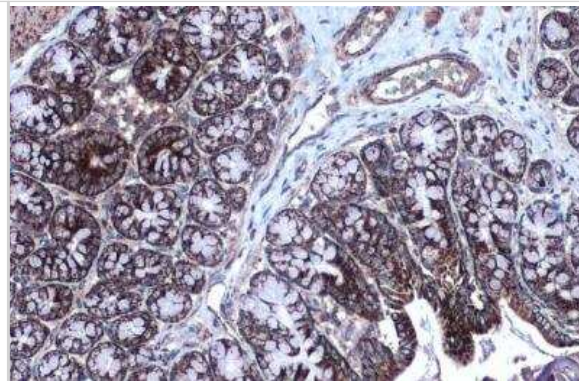
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1:500-1:20000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Knockout Validated

**Images**

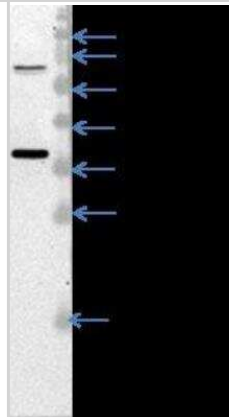
Immunocytochemistry/Immunofluorescence: MDH2 Antibody [NBP1-32259] - HeLa cells were fixed in ice-cold MeOH for 5 min. Green: MDH2 stained by MDH2 antibody diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar= 10um.



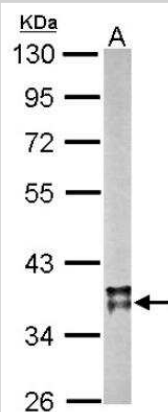
Immunohistochemistry-Paraffin: MDH2 Antibody [NBP1-32259] - Rat colon. MDH2 stained by MDH2 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



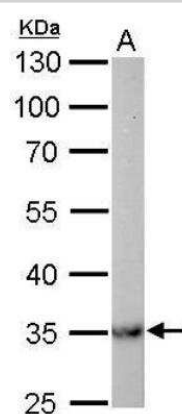
Western Blot: MDH2 Antibody [NBP1-32259] - Analysis of MDH2 in HeLa whole cell lysate. Image courtesy of an anonymous customer product review.



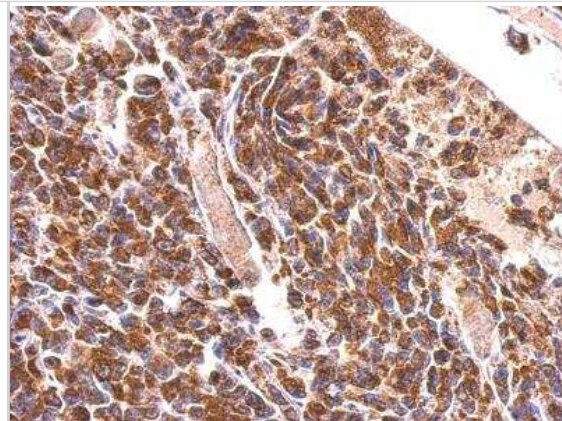
Western Blot: MDH2 Antibody [NBP1-32259] - Sample (20 ug of whole cell lysate) A: mouse brain 10% SDS PAGE diluted at 1:10000



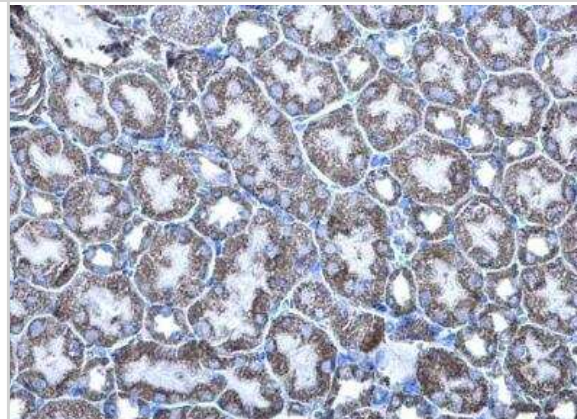
Western Blot: MDH2 Antibody [NBP1-32259] - A. 50 ug rat lung lysate/extract 10 % SDS-PAGE MDH2 antibody dilution: 1:5000



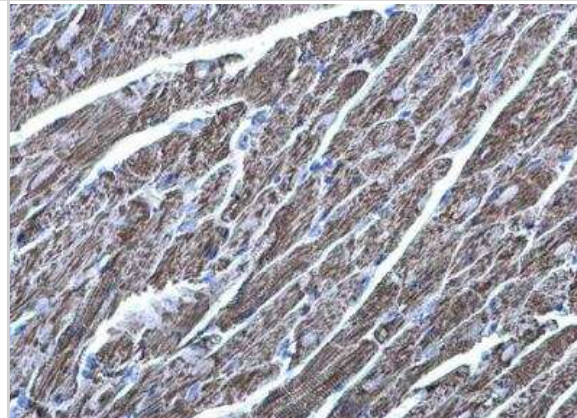
Immunohistochemistry-Paraffin: MDH2 Antibody [NBP1-32259] - H1299 xenograft. MDH2 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



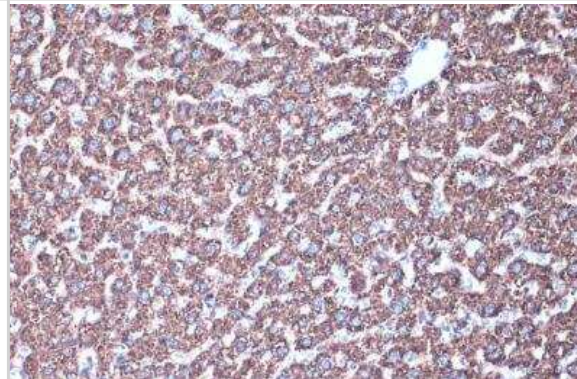
Immunohistochemistry-Paraffin: MDH2 Antibody [NBP1-32259] - Mouse heart. MDH2 antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



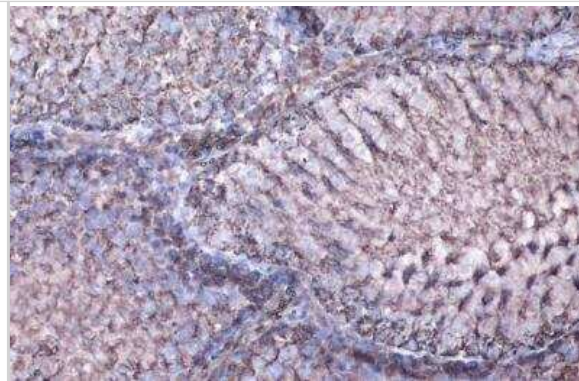
Immunohistochemistry-Paraffin: MDH2 Antibody [NBP1-32259] - Mouse heart. MDH2 antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



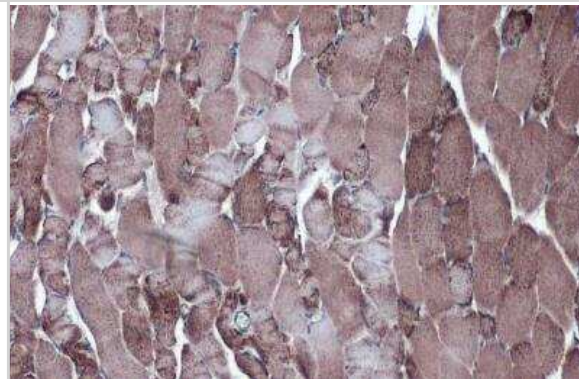
Immunohistochemistry-Paraffin: MDH2 Antibody [NBP1-32259] - Rat liver. MDH2 stained by MDH2 antibody diluted at 1:1000. Antigen Retrieval: Tris-EDTA buffer, pH 9.0, 15 min.



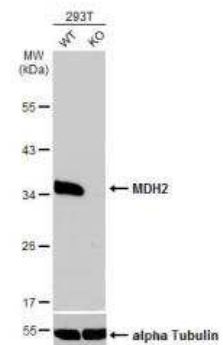
Immunohistochemistry-Paraffin: MDH2 Antibody [NBP1-32259] - Rat testis. MDH2 stained by MDH2 antibody diluted at 1:1000. Antigen Retrieval: Tris-EDTA buffer, pH 9.0, 15 min.



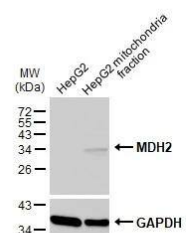
Immunohistochemistry-Paraffin: MDH2 Antibody [NBP1-32259] - Mouse testis. MDH2 stained by MDH2 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



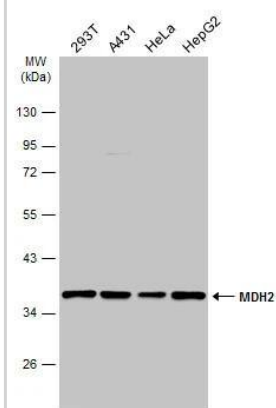
Western Blot: MDH2 Antibody [NBP1-32259] - Wild-type (WT) and MDH2 knockout (KO) 293T cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with MDH2 antibody diluted at 1:1000. HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



HepG2 and mitochondria extracts (30 ug) were separated by SDS-PAGE, and the membrane was blotted with MDH2 antibody (NBP1-32259) diluted at 1:3000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Various whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with MDH2 antibody (NBP1-32259) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



## Publications

Tai YH, Engels D, Locatelli G et al. Targeting the TCA cycle can ameliorate widespread axonal energy deficiency in neuroinflammatory lesions *Nature Metabolism* 2023-07-10 [PMID: 37430025] (In vivo assay)

Tai Y, Engels D, Locatelli G et al. Targeting the TCA cycle can ameliorate widespread axonal energy deficiency in neuroinflammatory lesions *bioRxiv* 2023-04-04 (IHC, Mouse)

Details:

Dilutions: 1:400



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General: novus@novusbio.com

### **Products Related to NBP1-32259**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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