

# Product Datasheet

## Isocitrate Dehydrogenase 1/IDH1 Antibody (OTI2H9) NBP1-47804

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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**NBP1-47804****Isocitrate Dehydrogenase 1/IDH1 Antibody (OTI2H9)**

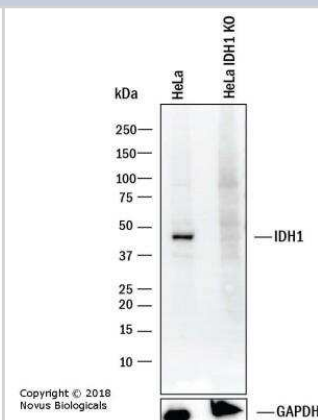
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OTI2H9
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	46.7 kDa

Product Description	
Host	Mouse
Gene ID	3417
Gene Symbol	IDH1
Species	Human, Mouse, Rat
Reactivity Notes	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.
Specificity/Sensitivity	This antibody is specific for Homo sapiens isocitrate dehydrogenase 1 (NADP+), soluble (IDH1).
Immunogen	Full-length protein expressed in 293T cell transfected with human IDH1 expression vector

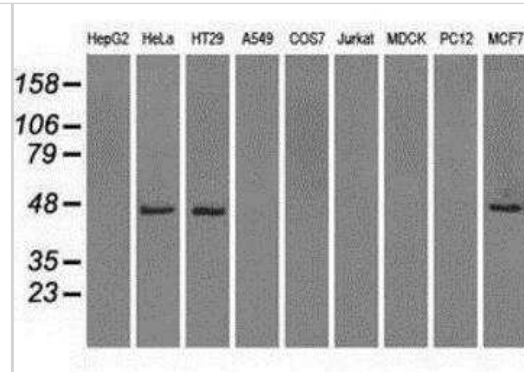
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot 1:2000, Immunohistochemistry 1:50, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:50, Knockout Validated

**Images**

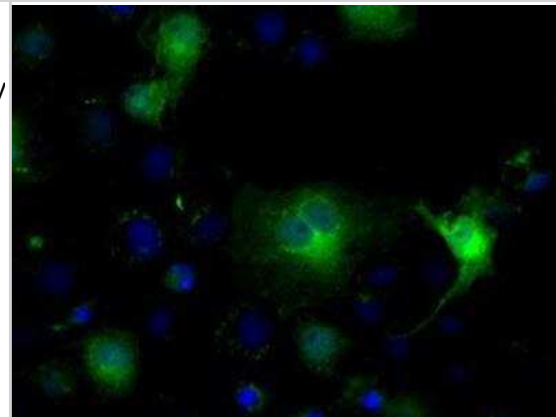
Knockout Validated: Isocitrate Dehydrogenase 1/IDH1 Antibody (OTI2H9) [NBP1-47804] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and IDH1 knockout (KO) HeLa cell line. PVDF membrane was probed with 1:2,000 of Mouse Anti-Human IDH1 monoclonal Antibody (Catalog # NBP1-47804) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for IDH1 at approximately 38 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.



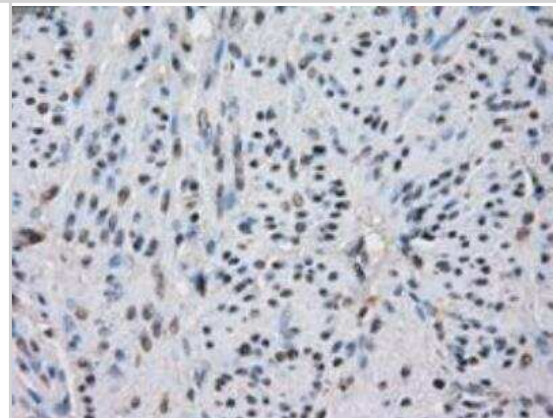
Western Blot: Isocitrate Dehydrogenase 1/IDH1 Antibody (2H9) [NBP1-47804] - Analysis of extracts (35ug) from 9 different cell lines by using anti-Isocitrate dehydrogenasemonoclonal antibody.



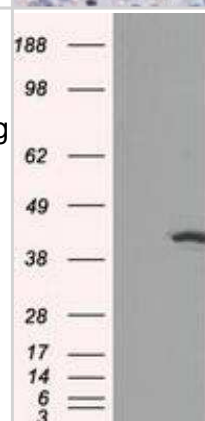
Immunocytochemistry/Immunofluorescence: Isocitrate Dehydrogenase 1/IDH1 Antibody (OTI2H9) [NBP1-47804] - Isocitrate Dehydrogenase 1/IDH1 Antibody (2H9) [NBP1-47804] - Staining of COS7 cells transiently transfected by pCMV6-ENTRY Isocitrate dehydrogenase.



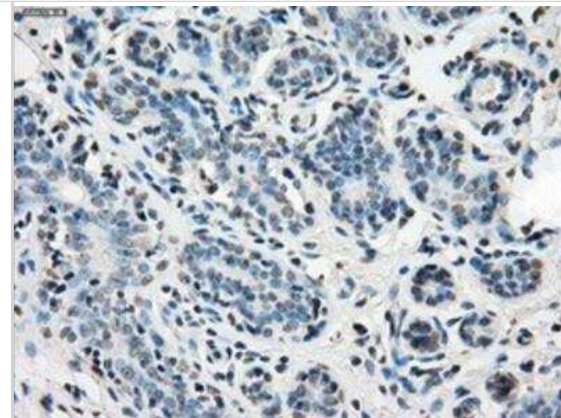
Immunohistochemistry-Paraffin: Isocitrate Dehydrogenase 1/IDH1 Antibody (2H9) [NBP1-47804] - Endometrium tissue.



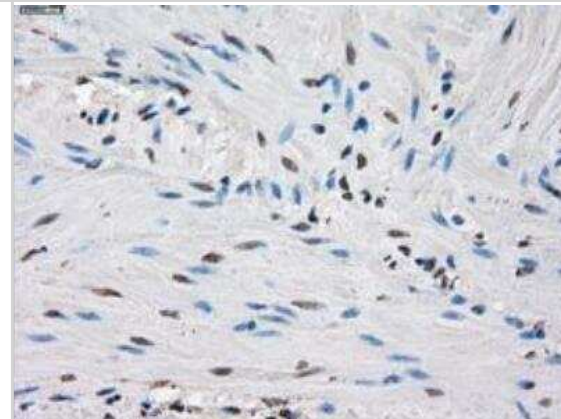
Western Blot: Isocitrate Dehydrogenase 1/IDH1 Antibody (2H9) [NBP1-47804] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY Isocitrate dehydrogenase(Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-Isocitrate dehydrogenase.



Immunohistochemistry-Paraffin: Isocitrate Dehydrogenase 1/IDH1 Antibody (2H9) [NBP1-47804] - Staining of paraffin-embedded breast tissue using anti-Isocitrate dehydrogenase mouse monoclonal antibody.



Immunohistochemistry-Paraffin: Isocitrate Dehydrogenase 1/IDH1 Antibody (2H9) [NBP1-47804] - Staining of paraffin-embedded endometrium tissue using anti-Isocitrate dehydrogenase mouse monoclonal antibody.



## Publications

Pathmanapan, S;Poon, R;De Renshaw, TB;Nadesan, P;Nakagawa, M;Seesankar, GA;Ho Loe, AK;Zhang, HH;Guinovart, JJ;Duran, J;Newgard, CB;Wunder, JS;Alman, BA; Mutant IDH regulates glycogen metabolism from early cartilage development to malignant chondrosarcoma formation Cell reports 2023-06-01 [PMID: 37267108] (IHC, Human, Mouse)



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### **Products Related to NBP1-47804**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-87428PEP	Isocitrate Dehydrogenase 1/IDH1 Recombinant Protein Antigen

### **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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