

# Product Datasheet

## IMP Dehydrogenase 2/IMPDH2 Antibody - BSA Free NBP1-86177

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 4

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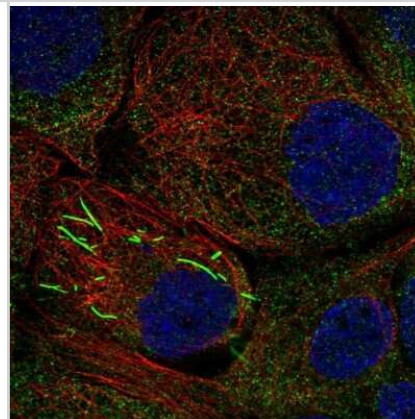
**NBP1-86177****IMP Dehydrogenase 2/IMPDH2 Antibody - BSA Free**

<b>Product Information</b>	
<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>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol
<b>Target Molecular Weight</b>	56 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit IMP Dehydrogenase 2/IMPDH2 Antibody - BSA Free (NBP1-86177) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-IMP Dehydrogenase 2/IMPDH2 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	3615
<b>Gene Symbol</b>	IMPDH2
<b>Species</b>	Human
<b>Reactivity Notes</b>	Human reactivity reported in scientific literature (PMID: 24139804).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: GFITDPVVLSPKDRVRDVFEAKARHGFCGIPITDTGRMGSRVLVGISSRDIDFLK EEEHDCFLIEIMTKREDLVVAPAGITLKEANEILQRSKKGKLPVNEDELVAIIA RTDLKKNRDYPLASKD
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500, Knockdown Validated
<b>Application Notes</b>	IHC reported in scientific literature (PMID: 24139804). For IHC-Paraffin, HIER pH 6 retrieval is recommended. Immunocytochemistry/Immunofluorescence Fixation Permeabilization: Use PFA/Triton X-100.

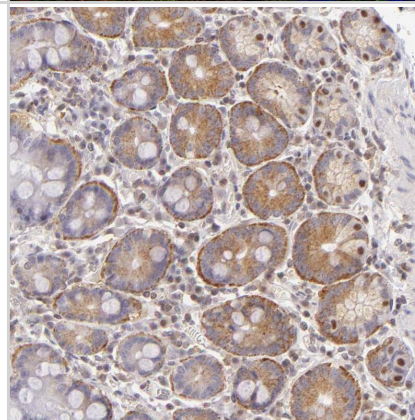


## Images

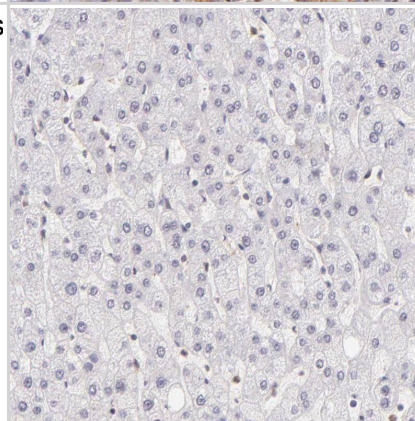
Immunocytochemistry/Immunofluorescence: IMP Dehydrogenase 2/IMPDH2 Antibody [NBP1-86177] - Staining of human cell line A-431 shows localization to cytosol & rods & rings.



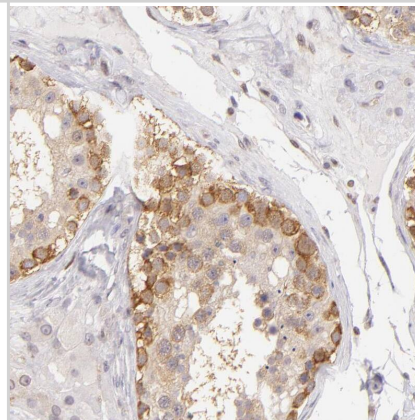
Staining of human small intestine shows strong cytoplasmic positivity in glandular cells.



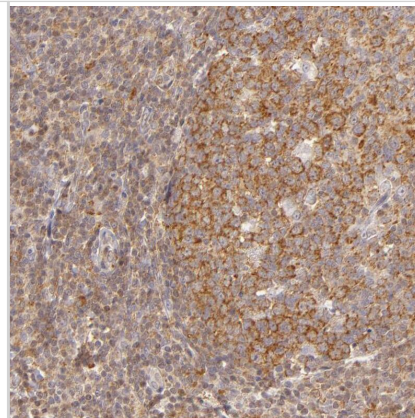
Staining of human liver shows no cytoplasmic positivity in hepatocytes as expected.



Staining of human testis shows strong cytoplasmic positivity in cells in seminiferous ducts.



Staining of human tonsil shows strong cytoplasmic positivity in germinal center cells.



Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1, using Anti-IMPDPH2 antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



## Publications

Barfeld SJ, Fazli L, Persson M et al. Myc-dependent purine biosynthesis affects nucleolar stress and therapy response in prostate cancer. *Oncotarget* 2015-05-20 [PMID: 25869206] (WB, Human)

Wawrzyniak JA, Bianchi-Smiraglia A, Bshara W et al. A Purine Nucleotide Biosynthesis Enzyme Guanosine Monophosphate Reductase is a Suppressor of Melanoma Invasion. *Cell Rep* 2013-10-31 [PMID: 24139804] (IF/IHC, Human)

Floryk D, Thompson TC et al. Antiproliferative effects of AVN944, a novel inosine 5-monophosphate dehydrogenase inhibitor, in prostate cancer cells. *Int J Cancer* 2008-11-01 [PMID: 18712736]

Mannava S, Grachtchouk V, Wheeler LJ et al. Direct role of nucleotide metabolism in C-MYC-dependent proliferation of melanoma cells. *Cell Cycle* 2008-06-03 [PMID: 18677108]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-86177**

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NBP1-86177PEP	IMP Dehydrogenase 2/IMPDH2 Recombinant Protein Antigen
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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