

# Product Datasheet

## Human Liver Tissue MicroArray (Cancer metastasis) NBP2-30221

Unit Size: 1 Slide

Store at 4C. Do not freeze.

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



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

**Publications: 13**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-30221](http://www.novusbio.com/NBP2-30221)

Updated 10/23/2024 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-30221](http://www.novusbio.com/reviews/destination/NBP2-30221)



**NBP2-30221**

Human Liver Tissue MicroArray (Cancer metastasis)

Product Information	
<b>Unit Size</b>	1 Slide
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Store at 4C. Do not freeze.
Product Description	
<b>Description</b>	Please see online datasheet for well details: <a href="http://www.novusbio.com/NBP2-30221">www.novusbio.com/NBP2-30221</a>
<b>Species</b>	Human
<b>Lysate Type</b>	Tissue
<b>Lysate Tissue Condition</b>	Cancer metastasis
Product Application Details	
<b>Applications</b>	Immunohistochemistry, Immunohistochemistry-Paraffin, Microarray
<b>Recommended Dilutions</b>	Immunohistochemistry, Immunohistochemistry-Paraffin, Microarray
<b>Application Notes</b>	Use in microarray reported in scientific literature (PMID: 28878246).

Complete product information can be found online at [www.novusbio.com/NBP2-30221](http://www.novusbio.com/NBP2-30221).

Please contact technical service with any questions regarding the use of this product.

**Publications**

Santhekadur PK, Akiel M, Emdad L, Gredler R. Staphylococcal nuclease domain containing-1 (SND1) promotes migration and invasion via angiotensin II type 1 receptor (AT1R) and TGF $\beta$  signaling. FEBS Open Bio 2014-06-12 [PMID: 24918049]

Lee YK, Kwon SM, Lee EB et al. Mitochondrial Respiratory Defect Enhances Hepatoma Cell Invasiveness via STAT3/NFE2L1/STX12 Axis Cancers 2020-09-15 [PMID: 32942643] (IHC-P, IF/IHC)

Shrestha R, Prithviraj P, Anaka M et al. Monitoring Immune Checkpoint Regulators as Predictive Biomarkers in Hepatocellular Carcinoma. Front Oncol. 2018-07-13 [PMID: 30057891] (IHC-P, Human)

Das SK, Pradhan AK, Bhoopathi P et al. The MDA-9/Syntenin/IGF-1R/STAT3 axis directs prostate cancer invasion. Cancer Res. 2018-03-23 [PMID: 29572229] (MiAr, Human)

Khanal T, Choi K, Leung YK et al. Loss of NR2E3 represses AHR by LSD1 reprogramming, is associated with poor prognosis in liver cancer Sci Rep 2017-09-06 [PMID: 28878246] (MiAr, Human)

Hsu C, Chen Y, Su H et al. Targeting TPX2 Suppresses the Tumorigenesis of Hepatocellular Carcinoma Cells Resulting in Arrested Mitotic Phase Progression and Increased Genomic Instability. Journal of Cancer 2017-05-12 [PMID: 28638452] (IF/IHC, Human)

Rajasekaran D, Jariwala N, Mendoza RG et al. Staphylococcal nuclease and tudor domain containing 1 (SND1) promotes hepatocarcinogenesis by inhibiting monoglyceride lipase (MGLL). J. Biol. Chem. 2016-03-20 [PMID: 26997225] (IHC-P)



Srivastava J, Robertson CL, Gredler R et al. Astrocyte Elevated Gene-1 (AEG-1) Contributes to Nonthyroidal Illness Syndrome (NTIS) Associated with Hepatocellular Carcinoma (HCC). *J. Biol. Chem.* 2015-05-05 [PMID: 25944909] (IHC-P)

**Details:**

Human Liver Tissue Microarray /Cancer metastasis (Imgenex: IMH-360) containing 40 primary human hepatocellular carcinoma / HCC, 10 metastatic HCC and 9 normal adjacent liver samples was used for IHC-P analysis of I 5'-deiodinase/DIO1 and oncogene Astrocyte elevated gene-1 /AEG-1 proteins using avidin-biotin-peroxidase -DAB staining method.

Zhu H, Berkova Z, Mathur R et al. HuR Suppresses Fas Expression and Correlates with Patient Outcome in Liver Cancer *Mol. Cancer Res.* 2015-02-12 [PMID: 25678597] (IHC-P)

**Details:**

Human Liver Tissue Microarray (Cancer metastasis, Imgenex IMH-360) containing sections of human HCC and normal liver tissues were used for IHC-P staining for HuR/ELAVL1 or HUR1 protein using VECTASTAIN Elite ABC Kit - DAB based detection. Human HCC tumor tissue sections depicted significantly higher overall and cytoplasmic HuR1 immunostaining compared to normal liver tissue sections (Figure 6).

Tavallai M, Hamed HA, Roberts JL et al. Nexavar/Stivarga and Viagra Interact to Kill Tumor Cells *J. Cell. Physiol.* 2015-02-20 [PMID: 25704960] (IHC-P)

**Details:**

Human Liver Tissue Microarray (Cancer) (Imgenex IMH-318) was used in IHC-P immunostaining application for the analysis of PDE5 / PDE5A and PDGFR using a mixture of PDGF R alpha and PDGF R beta antibodies. The immunoassay implicated an antigen retrieval steps and the the data is shown in Figure 2.

Yoo BK, Emdad L, Gredler R et al. Transcription factor Late SV40 Factor (LSF) functions as an oncogene in hepatocellular carcinoma. *Proc Natl Acad Sci U S A.* 2010-05-04 [PMID: 20404171] (IHC-P)

**Details:**

IMH-360: (liver cancer-metastasis-normal tissue microarray): IHC (paraffin), the tissue microarray was probed with LSF (Late SV40 Factor), Fig 1B.

Yoo BK, Emdad L, Su ZZ et al. Astrocyte elevated gene-1 regulates hepatocellular carcinoma development and progression. *J Clin Invest.* 2009-03-01 [PMID: 19221438]

**Details:**

Liver cancer tissue microarray (IMH-318), Liver cancer metastasis/normal tissue micro array (IMH-360). IHC (paraffin): Comparison of expression of AEG1, LEF1, TFCEP2, DPYD, IGFBP7 proteins in normal liver and matched liver cancer tissue microarrays (IMH-318 & IMH-360), Fig 5.

More publications at <http://www.novusbio.com/NBP2-30221>



### **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 NBP2-30221**

---

NB820-59232	Human Liver Whole Tissue Lysate (Adult Whole Normal)
-------------	------------------------------------------------------

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Tissue Micro Arrays are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-30221](http://www.novusbio.com/reviews/submit/NBP2-30221)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

