

Product Datasheet

OATP2/8 Antibody (MDQ) NB100-74482

Unit Size: 500 uL

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

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NB100-74482

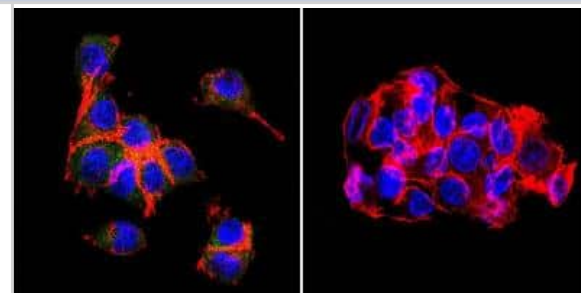
OATP2/8 Antibody (MDQ)

Product Information	
Unit Size	500 uL
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	MDQ
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Tissue culture supernatant
Product Description	
Description	This product was originally labeled as an antibody to OATP8. However, the amino acid sequence used as the immunizing peptide is 100% identical to OATP2. Furthermore, publications using this antibody show reactivity to both OATP2 and 8. As such, this antibody is reactive to both OATP2 and OATP8.
Host	Mouse
Gene ID	10599
Gene Symbol	SLCO1B1
Species	Human
Specificity/Sensitivity	NB100-74482 detects OATP2 and OATP8 from human tissue and cells.
Immunogen	Synthetic peptide corresponding to residues M(1) D Q N Q H L N K T A E A Q P S E N K K T R Y(23) C of human OATP2.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100 - 1:2000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:20, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:20, Immunohistochemistry-Frozen 1:20
Application Notes	WB usage w as reported in literature (See Cui Y et al.). IHC-P usage reported in scientific literature (PMID: 25063395).



Images

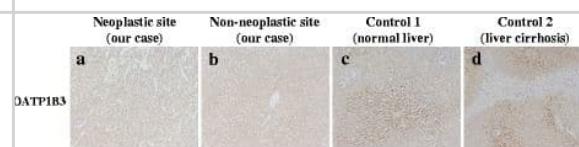
Immunocytochemistry/Immunofluorescence: OATP2/8 Antibody (MDQ) [NB100-74482] - Analysis of OATP8 in HepG2 Cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a OATP8 monoclonal antibody at a dilution of 1:20 overnight at 4C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. OATP8 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown.



Immunohistochemistry: OATP2/8 Antibody (MDQ) [NB100-74482] - Immunohistochemical staining of liver transporters in the resected specimens from our case and control cases. Image collected and cropped by CiteAb from the following publication ([surgicalcasereports.springeropen.com/articles/10.1186/s40792-016-0216-8](https://www.surgicalcasereports.springeropen.com/articles/10.1186/s40792-016-0216-8)), licensed under a CC-BY license.



a–l Immunohistochemical staining of liver transporters in the resected specimens from our case and control cases



Publications

Reza HA, Farooqui Z, Reza AA et al. Synthetic augmentation of bilirubin metabolism in human pluripotent stem cell-derived liver organoids Stem cell reports 2023-09-29 [PMID: 37832542] (ICC/IF, Human)

Kiander W, Vellonen KS, Malinen MM Et al. The Effect of Single Nucleotide Variations in the Transmembrane Domain of OATP1B1 on in vitro Functionality Pharmaceutical research 2021-10-13 [PMID: 34647232] (ICC/IF, Human)

Yoneda N, Matsui O, Kitao A et al. Peri-tumoral hyperintensity on hepatobiliary phase of gadoxetic acid-enhanced MRI in hepatocellular carcinomas: correlation with peri-tumoral hyperplasia and its pathological features. Abdom Radiol (NY) 2017-12-19 [PMID: 29260280] (IF/IHC, Human)

Imada S, Kobayashi T, Kitao A et al. Central bisectionectomy for hepatocellular carcinoma in a patient with indocyanine green excretory defect associated with reduced expression of the liver transporter. Surg Case Rep 2016-12-01 [PMID: 27589984] (IF/IHC)

Thomson MM, Hines RN, Schuetz EG, Meibohm B. Expression Patterns of OATP 1B1 and OATP 1B3 Protein in Human Pediatric Liver. Drug Metab. Dispos. 2016-04-20 [PMID: 27098745] (WB, Human)

Fujita N, Nishie A, Asayama Y et al. Significance of the Signal Intensity of Gadoxetic Acid-enhanced MR Imaging for Predicting the Efficacy of Hepatic Arterial Infusion Chemotherapy in Hepatocellular Carcinoma. Magn Reson Med Sci 2015-09-04 [PMID: 26346403] (IHC-P, Human)

Kitao A, Zen Y, Matsui O et al. Hepatocellular carcinoma: signal intensity at gadoxetic acid-enhanced MR Imaging--correlation with molecular transporters and histopathologic features. Radiology 2010-09-01 [PMID: 20663969] (Human)

Kitao A, Matsui O, Yoneda N et al. Hepatocellular Carcinoma with beta-Catenin Mutation: Imaging and Pathologic Characteristics Radiology. 2015-02-06 [PMID: 25668519] (Human)

Kagawa T, Oka A, Kobayashi Y et al. Recessive inheritance of population-specific intronic LINE-1 insertion causes a Rotor syndrome phenotype. Hum. Mutat. 2014-12-25 [PMID: 25546334] (IF/IHC, Human)

Fujita N, Nishie A, Kubo Y et al. Hepatocellular carcinoma: clinical significance of signal heterogeneity in the hepatobiliary phase of gadoxetic acid-enhanced MR imaging. Eur Radiol 2014-07-26 [PMID: 25063395] (IHC-P, Human)

Details:

OATP8 or OATP2/8 antibody (clone MDQ) used for IHC-P on 10 % formalin fixed tissues of human hepatocellular carcinoma/HCC - 1:100 dilution, streptavidin-biotin-peroxidase - DAB detection method. IHC images documented on the tumour cells with no OATP8 expression (grade 0, Figure 3d), decreased expression of OATP8 (grade 1, Figure 4d) and increased expression of OATP8 (grade 3, Figure 5d).

Ohama H, Imai Y, Nakashima O et al. Images of Sonazoid-enhanced ultrasonography in multistep hepatocarcinogenesis: comparison with Gd-EOB-DTPA-enhanced MRI. J Gastroenterol 2013-08-01 [PMID: 23903870] (IF/IHC, Human)

Yoneda N, Matsui O, Kitao A, Kita R et al. Hypervascular hepatocellular carcinomas showing hyperintensity on hepatobiliary phase of gadoxetic acid-enhanced magnetic resonance imaging: a possible subtype with mature hepatocyte nature. Jpn J Radiol 2013-07-01 [PMID: 23771695] (IF/IHC, Human)

More publications at <http://www.novusbio.com/NB100-74482>





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Products Related to NB100-74482

NBL1-16204	OATP1B3/SLCO1B3/OATP8 Overexpression Lysate
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)

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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