

# Product Datasheet

## MRP4/ABCC4 Antibody NB100-1471

Unit Size: 0.1 mg

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

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**NB100-1471****MRP4/ABCC4 Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. 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>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

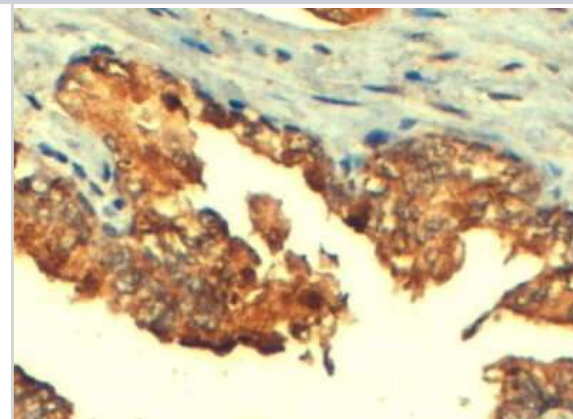
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Goat MRP4/ABCC4 Antibody (NB100-1471) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-MRP4/ABCC4 Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Goat
<b>Gene ID</b>	10257
<b>Gene Symbol</b>	ABCC4
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 28785115). Rat reactivity reported in scientific literature (PMID: 22419695).
<b>Specificity/Sensitivity</b>	This antibody is expected to recognize isoform 1 (NP_005836.2) only.
<b>Immunogen</b>	Peptide with sequence CNGQPSTLTIFETAL corresponding to C-Terminus according to NP_005836.2.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot 1-3 ug/ml, Immunohistochemistry 4 - 6 ug/mL, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 4 - 6 ug/mL, Immunohistochemistry-Frozen, Peptide ELISA Detection limit 1:1000
<b>Application Notes</b>	ICC/IF successful usage for human primary hepatocytes is reported in scientific literature (PMID: 20395535). Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 31669256).WB reactivity reported in (PMID: 25263207). Data obtained from a previous batch (different goat). WB: Approx. 170 kDa band observed in rat renal cortex membranes (calculated MW of 149 kDa band according to rat NP_596902.1 and 150 kDa band according to human NP_005836.2) is provided by Dr. Antje Steinbach, Ernst-Moritz-Arndt University of Greifswald, Germany. Data obtained from a previous batch (different goat). IHC-P: Human prostate shows strong cytoplasmic staining in small flat basal cells and weak cytoplasmic staining in the columnar secretory cells of the epithelium.



## Images

Immunohistochemistry-Paraffin: MRP4/ABCC4 Antibody [NB100-1471] - Staining Human Prostate tissue. Antibody at 4 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.



## Publications

Cives-Losada C, Asensio M, Briz O et al. Relevance of transportome among the mechanisms of chemoresistance in hepatoblastoma. *Biochemical pharmacology* 2025-04-02 [PMID: 40185314]

Al-Abdulla R, Perez-Silva L, Lozano E et al. Sensitizing gastric adenocarcinoma to chemotherapy by pharmacological manipulation of drug transporters *Biochem. Pharmacol.* 2019-10-24 [PMID: 31669256] (IHC-Fr, ICC/IF, Human)

Blazquez AMG, Macias RIR, Cives-Losada C et al. Lactation during cholestasis: Role of ABC proteins in bile acid traffic across the mammary gland. *Sci Rep* 2017-08-07 [PMID: 28785115] (ICC/IF, WB, Mouse)

Schuetz JD, Connelly MC, Sun D et al. MRP4: A previously unidentified factor in resistance to nucleoside-based antiviral drugs. *Nat Med* 1999-09-01 [PMID: 10470083]

Domingue JC, Ao M, Sarathy J et al. HEK-293 cells expressing the cystic fibrosis transmembrane conductance regulator (CFTR): a model for studying regulation of Cl<sup>-</sup> transport. *Physiol Rep.* 2014-09-01 [PMID: 25263207] (WB, Human)

### Details:

MRP4 antibody used for WB at 1:750 dilution on cytosolic and total lysate fractions of HEK293 cells as well as T84 cells (positive control). The antibody detected a band of 170 kDa size and the data is shown in Figure 5A - lower panel.

Xu S, Weerachayaphorn J, Cai SY et al. Aryl hydrocarbon receptor and NF-E2-related factor 2 are key regulators of human MRP4 expression. *Am J Physiol Gastrointest Liver Physiol* 2010-07-01 [PMID: 20395535]

Cheng D, Ren J, Jackson EK. Multidrug resistance protein 4 mediates cAMP efflux from rat preglomerular vascular smooth muscle cells. *Clin Exp Pharmacol Physiol* 2010-02-01 [PMID: 19671067] (WB, Rat)

Nomura M, Motohashi H, Sekine H et al. Developmental expression of renal organic anion transporters in rat kidney and its effect on renal secretion of phenolsulfonphthalein *Am J Physiol Renal Physiol* 2012-06-01 [PMID: 22419695] (WB, Rat)

Naud J, Michaud J, Beauchemin S et al. Effects of chronic renal failure on kidney drug transporters and cytochrome P450 in rats. *Drug Metab Dispos*;39(8):1363-9. 2011-08-01 [PMID: 21525170]

Naud J, Laurin L-P, Michaud J et al. Effects of Chronic Renal Failure on Brain Drug Transporters in Rats. *Drug Metabolism and Disposition: The Biological Fate of Chemicals.* 2011-10-03 [PMID: 21969519]



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### **Products Related to NB100-1471**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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