

# Product Datasheet

## SLC22A1 Antibody (2C5) - BSA Free NBP1-51684

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: 11

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**NBP1-51684**

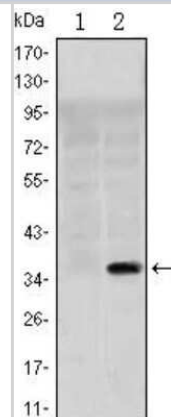
SLC22A1 Antibody (2C5) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2C5
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	61.2 kDa
Product Description	
Host	Mouse
Gene ID	6580
Gene Symbol	SLC22A1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28942964).
Immunogen	Purified recombinant fragment of human SLC22A1 expressed in E. Coli.
Product Application Details	
Applications	Western Blot, ELISA, Electron Microscopy, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Electron Microscopy
Application Notes	Use in IHC reported in scientific literature (PMID: 28942964). Use in Electron Microscopy reported in scientific literature (PMID: 28362799). Use in ICC/IF reported in scientific literature (PMID: 26157489).

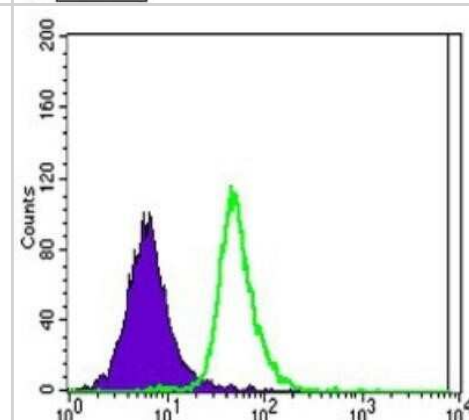


## Images

Western Blot: SLC22A1 Antibody (2C5) [NBP1-51684] - Analysis using SLC22A1 mAb against HEK293 (1) and SLC22A1(AA: 284-347)-hIgGFc transfected HEK293 (2) cell lysate.



Flow Cytometry: SLC22A1 Antibody (2C5) [NBP1-51684] - Analysis of Jurkat cells using SLC22A1 mouse mAb (green) and negative control (purple).



## Publications

Wittern CI, Schröder S, Jensen O et al. Comprehensive characterization of the OCT1 phenylalanine-244-alanine substitution reveals highly substrate-dependent effects on transporter function. *The Journal of biological chemistry* 2024-09-27 [PMID: 39342994]

Haas M, Ackermann G, Küpper JH et al. OCT1-dependent uptake of structurally diverse pyrrolizidine alkaloids in human liver cells is crucial for their genotoxic and cytotoxic effects *Archives of toxicology* 2023-09-07 [PMID: 37676300] (ICC/IF)

Redeker KM, Jensen O, Gebauer L et al. Atypical Substrates of the Organic Cation Transporter 1 *Biomolecules* 2022-11-09 [PMID: 36359014] (ICC/IF, Human)

Meyer MJ, Schreier PCF, Basaran M et al. Amino acids in transmembrane helix 1 confer major functional differences between human and mouse orthologs of the polyspecific membrane transporter OCT1 *The Journal of biological chemistry* 2022-04-21 [PMID: 35469921] (ICC/IF, Human)

ROmer S, Meyer MJ, Klein K et al. Effects of a Common Eight Base Pairs Duplication at the Exon 7-Intron 7 Junction on Splicing, Expression, and Function of OCT1 *Frontiers in pharmacology* 2021-05-07 [PMID: 34025422] (ICC/IF, Human)

Kim HI, Raffler J, Lu W et al. Fine Mapping and Functional Analysis Reveal a Role of SLC22A1 in Acylcarnitine Transport *Am. J. Hum. Genet.* 2017-09-14 [PMID: 28942964] (IF/IHC, Mouse)

Zhang Y, Boxberger KH, Hagenbuch B. Organic anion transporting polypeptide 1B3 can form homo- and hetero-oligomers *PLoS ONE* 2017-06-23 [PMID: 28644885] (Human)

Sekhar GN, Georgian AR, Sanderson L et al. Organic cation transporter 1 (OCT1) is involved in pentamidine transport at the human and mouse blood-brain barrier (BBB). *PLoS ONE*. 2017-03-31 [PMID: 28362799] (EM, Mouse)

Seitz T, Stalman R, Dalila N et al. Global genetic analyses reveal strong inter-ethnic variability in the loss of activity of the organic cation transporter OCT1. *Genome Med* 2015-07-09 [PMID: 26157489] (WB, ICC/IF, Mouse)

Dos Santos Pereira JN et al. The role of membrane transporters in the pharmacokinetics of psychotropic drugs: in vitro studies with special focus on organic cation transporters Thesis. 2014-01-01 (IHC-P, Human)

Boxberger KH, Hagenbuch B, Lampe JN. Common Drugs Inhibit Human Organic Cation Transporter 1 (OCT1)-Mediated Neurotransmitter Uptake. *Drug Metab. Dispos.* 2014-01-01 [PMID: 24688079]





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### **Products Related to NBP1-51684**

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)
NBP1-89418PEP	SLC22A1 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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