Datasheet for 600-401-EN9

# Slc22A17 Antibody

## Overview

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| **Description:** | Anti-SLC22A17 (RABBIT) Antibody - 600-401-EN9 |
| **Item No.:** | 600-401-EN9 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, IF, IHC, WB |
| **Reactivity:** | Human, Mouse, Rat |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | The Slc22 family of organic anion and cation transporters (OATs, OCTs, OCTNs) are transmembrane proteins expressed predominantly in kidney and liver. Each contain 12 predicted alpha-helical transmembrane domains (TMDs) and one large extracellular loop between TMDs 1 and 2. Transporters of the SLC22 family function in different ways such as uniporters that mediate facilitated diffusion in either direction (OCTs), as anion exchangers (OAT1, OAT3 and URAT1), and as Na(+)/l-carnitine cotransporter (OCTN2). Slc22 family members participate in the absorption and/or excretion of drugs, xenobiotics, and endogenous compounds in intestine, liver, and kidney, and perform homeostatic functions in brain and heart. Mutations in the Slc22 family may cause specific diseases such as primary systemic carnitine deficiency or idiopathic renal hypouricemia and may change drug absorption or excretion. Recent studies show the expression of Slc22A17 as receptor for Lipocalin 2 is relatively high in hematopoietic stem cells. |
| **Synonyms:** | Slc22A17 Antibody, BOCT, BOIT, 24p3R, NGALR, hBOIT, NGALR2, NGALR3, BOCT, Solute carrier family 22 member 17, 24p3 receptor |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | SLC22A17 |
| **Reactivity:** | Human, Mouse, Rat |

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| **Immunogen Type:** | Conjugated Peptide |
| **Immunogen:** | Anti-Slc22A17 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide near the C-terminus of the human Slc22A17. |
| **Purity/Specificity:** | Anti-Slc22A17 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Slc22A17 from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - Q8WUG5<br>• GeneID - 51310<br>• NCBI - Q8WUG5 |

## Application Details

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| **Tested Applications:** | ELISA, IF, IHC, WB |
| **Application Note:** | Anti-Slc22A17 Antibody has been tested for use in ELISA, Western Blotting, immunohistochemistry, and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 58 kDa in Western Blots of specific cell lysates and tissues. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:10,000 |
| **IF:** | 20 µg/mL |
| **IHC:** | 2.5 µg/mL |
| **WB:** | 1 µg/mL |

## Formulation

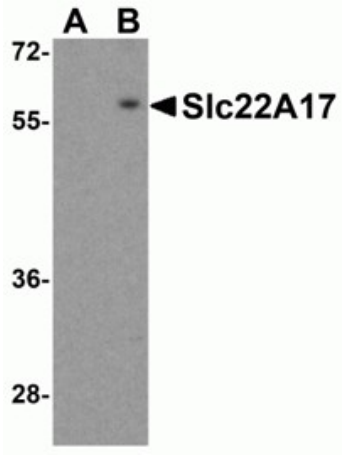
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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.02% (w/v) Sodium Azide |
| **Stabilizer:** | None |

## Shipping & Handling

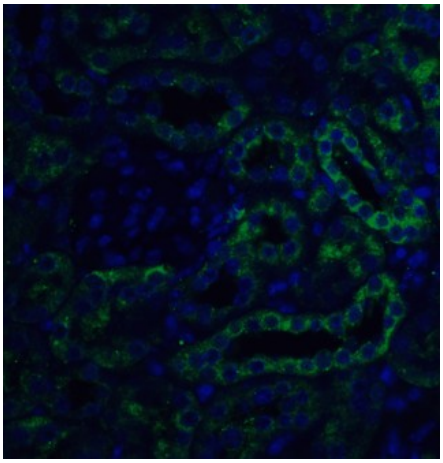
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| **Shipping Condition:** | Dry Ice |

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| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

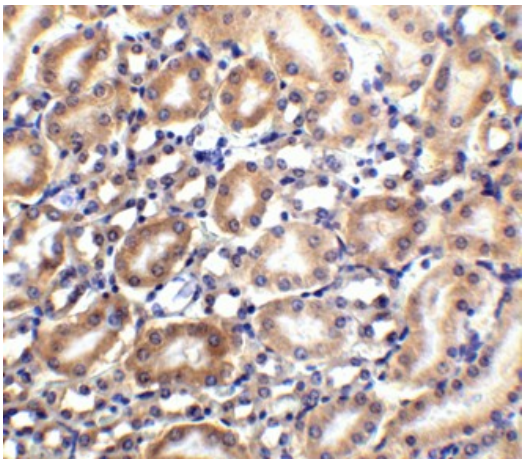
## Images



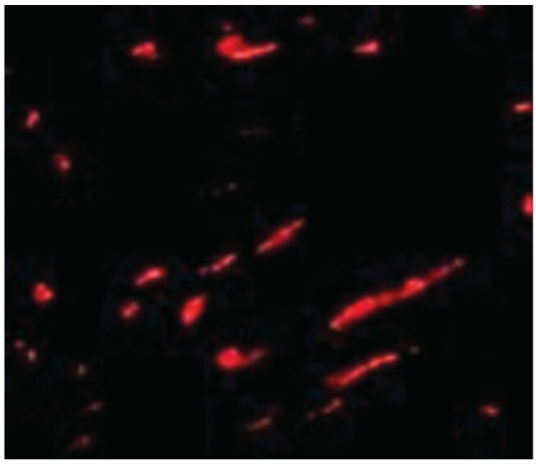

**Western Blot**
Western blot analysis of Slc22A17 in SK-N-SH lysate with Slc22A17 antibody at 0.5 µg/mL in (A) the presence and (B) the absence of blocking peptide.



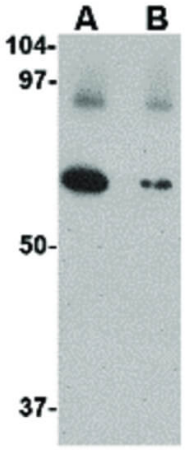
**Immunofluorescence Microscopy**
Immunofluorescence of SLC22A17 in mouse kidney tissue with SLC22A17 antibody at 20 µg/ml. Green: Slc22A17 Antibody. Blue: DAPI staining.



**Immunohistochemistry**
Immunohistochemistry of SLC22A17 in mouse kidney tissue with SLC22A17 antibody at 2.5 µg/ml.



**Immunofluorescence Microscopy**
Immunofluorescence Microscopy of Slc22A17 antibody. Tissue: Rad kidney tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Slc22A17 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Slc22A17 as a red fluorescent signal.




**Western Blot**
Western Blot of Slc22A17 antibody. Lane A: SK-N-SH lysate in the absence of blocking peptide. Lane B: SK-N-SH lysate in the presence of blocking peptide. Load: 35 µg per lane. Primary Antibody: Anti-Slc22A17 at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 57.6 kDa, ~60 kDa for Slc22A17.

## Disclaimer

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