

## Slc22A17 Antibody

*Slc22A17: Solute carrier family 22 member 17, Brain-type organic cation transporter, BOCT, BOIT*

**CATALOG No.:** 4651

### 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 (1,2). Recent studies show the expression of Slc22A17 as receptor for Lipocalin 2 is relatively high in hematopoietic stem cells (3,4).

### SOURCE:

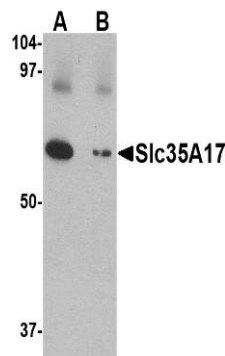
Rabbit polyclonal Slc22A17 antibody was raised against a 14 amino acid peptide near the carboxy terminus of the human Slc22A17 (GenBank accession no. Q8WUG5).

### APPLICATION:

Slc22A17 antibody can be used for detection of Slc22A17 by Western blot at 1 µg/ml. (Optimal dilution should be determined by user.) SK-N-SH cell lysate can be used as positive control. Slc22A17 antibody is human specific. **For research use only.**

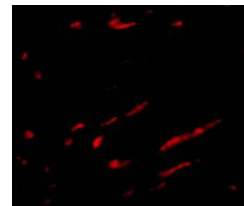
### STORAGE:

Slc22A17 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of Slc22A17 in SK-N-SH lysate with Slc22A17 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.

Immunofluorescence of Slc22A17 in rat kidney tissue cells with Slc22A17 antibody at 20 µg/ml.



### RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4651P**.  
SK-N-SH Cell Lysate, Catalog No. **1220**.  
Slc12A2 Antibody, Catalog No. **XW-8138**.  
Slc26A3 Antibody, Catalog No. **XW-8140**.

### REFERENCES:

1. Koepsell H and Endou H. The SLC22 drug transporter family. *Pflügers Arch.* 2004; 447:666-76.
2. Rizwan AN and Burckhardt G. Organic anion transporters of the SLC22 family: biopharmaceutical, physiological, and pathological roles. *Pharm. Res.* 2007; 24:450-70.
3. Miharada K, Hiroyama T, Sudo K, et. al. Lipocalin 2-mediated growth suppression is evident in human erythroid and monocyte/macrophage lineage cells. *J. Cell Physiol.* 2008; 215:526-37.
4. Devireddy LR, Gazin C, Zhu X, et al. A cell-surface receptor for lipocalin 24p3 selectively mediates apoptosis and iron uptake. *Cell* 2005; 123:1293-305. (08-01D)