



## Rabbit Anti-Slc22A17 antibody

SL0444R

**Product Name** Slc22A17**Chinese Name** 可溶性载质 Transporter22A17 抗体**Alias**

24p3 receptor; 24p3R; SLC22A17; hBOIT; BOCT; BOIT; Brain type organic cation transporter; Brain-type organic cation transporter; Neutrophil gelatinase associated lipocalin receptor; Neutrophil gelatinase-associated lipocalin receptor; Lipocalin-2 receptor; NGAL receptor; NgalR; NGALR; NGALR2; NGALR3; OTTHUMP00000082690; OTTHUMP00000082691; S22AH\_HUMAN; Slc22a17; Potent brain type organic ion transporter; Solute carrier family 22 member 17; Solute carrier family 22 organic cation transporter member 17.

**Research Area**

Tumour immunology Signal transduction The new supersedes the old

**Immunogen Species**

Rabbit

**Clonality**

Polyclonal

**React Species**

Human, Rat, (predicted: Mouse, Dog, Pig, Cow, )

**Applications**

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight**

58kDa

**Cellular localization**

The cell membrane

**Form**

Liquid

**Concentration**

1mg/ml

**immunogen**

KLH conjugated synthetic peptide derived from human NGALR: 475-538/538

**Lsotype**

IgG

**Purification**

affinity purified by Protein A

**Buffer Solution**

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage**

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed**

[PubMed](#)

SLC22A17 (solute carrier family 22 member 17; organic cation transporter,) may act as a brain-specific organic ion transporter. The Major Facilitator Superfamily (MFS) is a large and diverse group of secondary transporters that includes uniporters, symporters, and antiporters. MFS proteins facilitate the transport across cytoplasmic or internal membranes of a variety of substrates including ions, sugar phosphates, drugs, neurotransmitters, nucleosides, amino acids, and peptides. They do so using the electrochemical potential of the transported substrates. Uniporters transport a single substrate, while symporters and antiporters transport two substrates in the same or in opposite directions, respectively, across membranes. MFS proteins are typically 400 to 600 amino acids in length, and the majority contain 12 transmembrane alpha helices (TMs) connected by hydrophilic loops.

**Function:**

Cell surface receptor for LCN2 (24p3) that plays a key role in iron homeostasis and transport. Able to bind iron-bound LCN2 (holo-24p3), followed by internalization of holo-24p3 and release of iron, thereby increasing intracellular iron concentration and leading to inhibition of apoptosis. Also binds iron-free LCN2 (apo-24p3), followed by internalization of apo-24p3 and its association with an intracellular siderophore, leading to iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration and resulting in apoptosis (By similarity).

**Product  
Detail**

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein. Vacuole membrane; Multi-pass membrane protein. Note=Upon LCN2-binding, it is internalized.

**Tissue Specificity:**

Expressed in brain.

**Similarity:**

Belongs to the major facilitator superfamily. Organic cation transporter family.

**SWISS:**

Q8WUG5

**Gene ID:**

51310

**Database links:**

[Entrez Gene: 51310](#) Human

[Entrez Gene: 305886](#) Rat

[Omim: 611461](#) Human

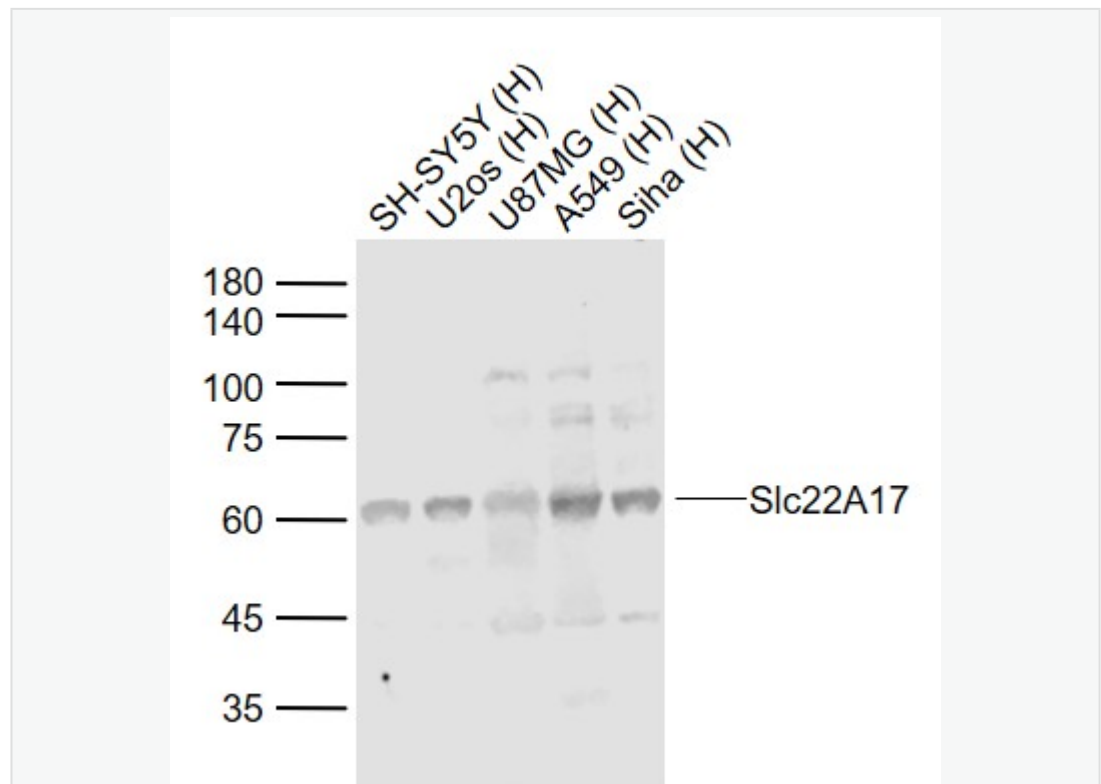
[SwissProt: Q8WUG5](#) Human

[SwissProt: Q9P290](#) Rat

[Unigene: 373498](#) Human

[Unigene: 7312](#) Rat

**Product  
Picture**



Sample:

Lane 1: SH-SY5Y (Human) Cell Lysate at 30 ug

Lane 2: U2os (Human) Cell Lysate at 30 ug

Lane 3: U87MG (Human) Cell Lysate at 30 ug

Lane 4: A549 (Human) Cell Lysate at 30 ug

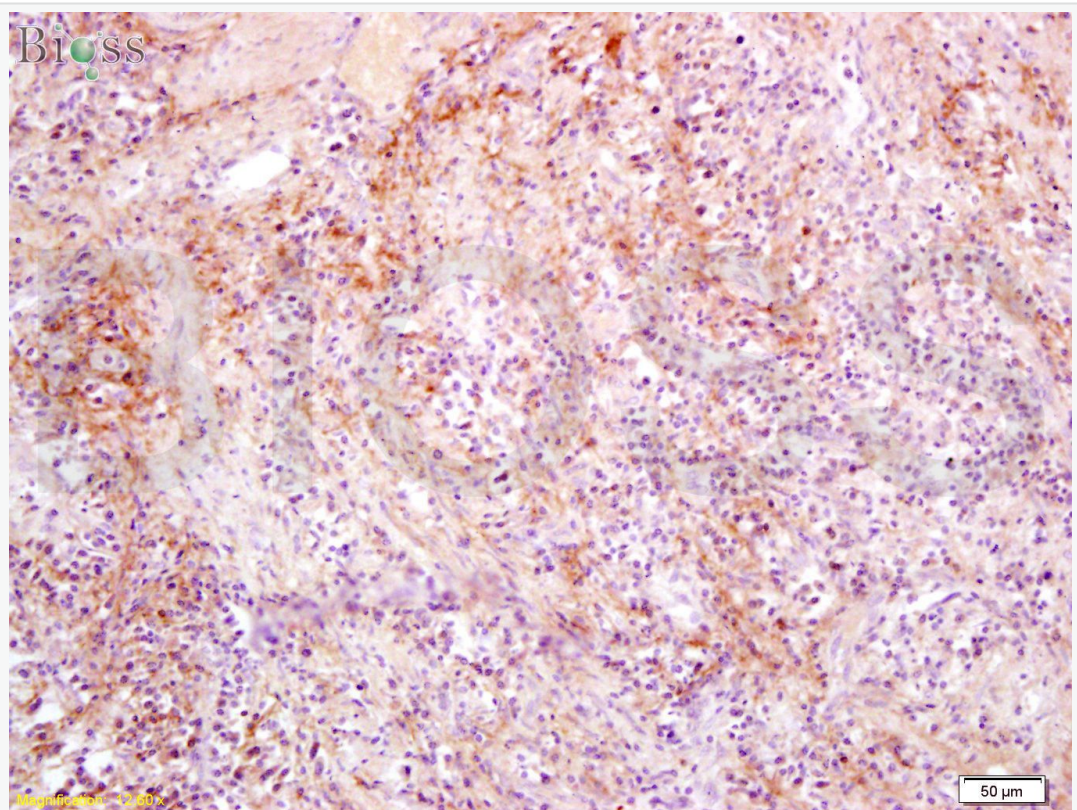
Lane 5: Siha (Human) Cell Lysate at 30 ug

Primary: Anti-Slc22A17 (SL0444R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD

Observed band size: 61 kD



Tissue/cell: rat colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block



endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Slc22A17 Y Polyclonal Antibody, Unconjugated(SL0444R)

1:300, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining