SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-SLC22A17 antibody

Catalog Number: SL23018R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SLC22A17
Immunogen:	KLH conjugated synthetic peptide derived from human SLC22A17: 211-300/538
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
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.
Reactivity:	Human, Mouse, Rat, (predicted: Dog, Pig, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	58kDa
Subcellular Location:	The cell membrane
Background:	SLC22A17 (solute carrier family 22 nember 17; organic cation transportor,).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

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	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). **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. **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

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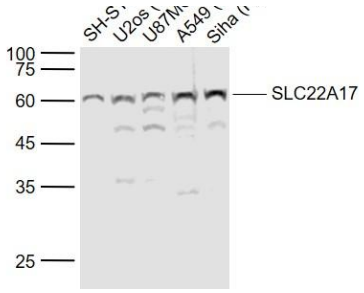
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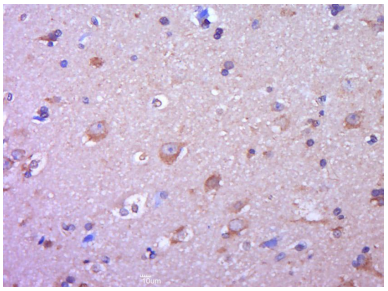
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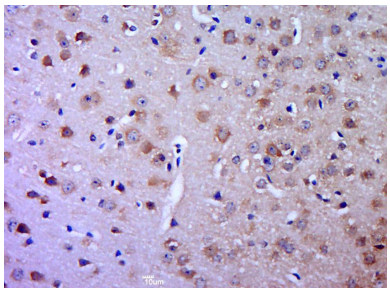
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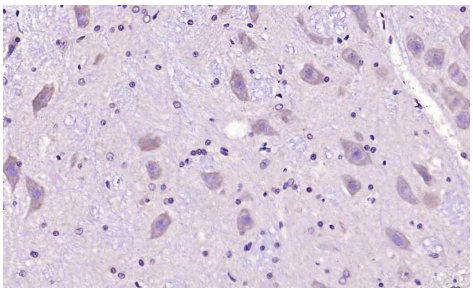
Sample:
Lane 1: SH-SY5Y (Human) Cell Lysate at 30 ug
Lane 2: U2os (Human) Cell Lysate at 30 ug
Lane 3: U87MG (Human) Cell Lysate at 30 ug
Lane 4: A549 (Human) Cell Lysate at 30 ug
Lane 5: Siha (Human) Cell Lysate at 30 ug
Primary:
Anti-SLC22A17 (SL23018R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 58 kD



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLC22A17) Polyclonal Antibody, Unconjugated (SL23018R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLC22A17) Polyclonal Antibody, Unconjugated (SL23018R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SLC22A17) Polyclonal Antibody, Unconjugated (SL23018R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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