

Rabbit OAT2/SLC22A7 Polyclonal Antibody | anti-SLC22A7 antibody

Anti-OAT2/SLC22A7 Antibody Picoband

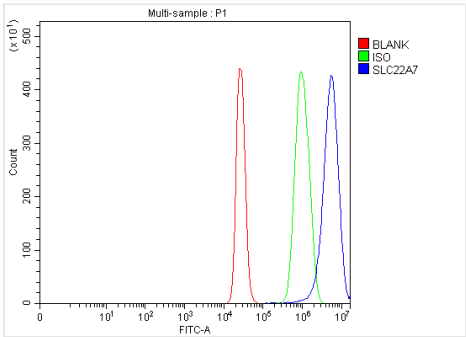
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126421	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

OAT2/SLC22A7; Polyclonal Antibody; Anti-OAT2/SLC22A7 Antibody Picoband; anti-SLC22A7 antibody

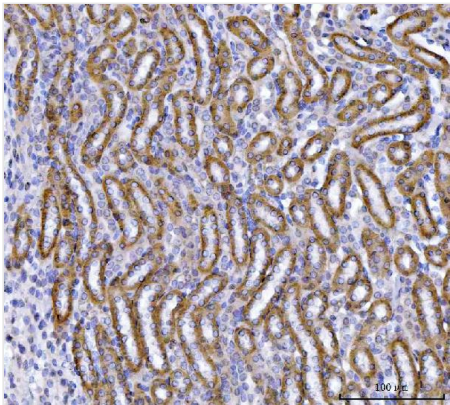
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SLC22A7 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human OAT2/SLC22A7 recombinant protein (Position: L33-N548).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



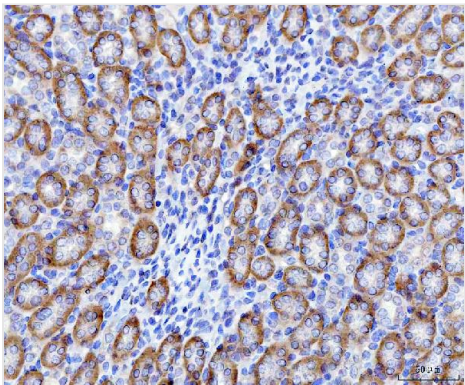
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HepG2 cells using anti-OAT2/SLC22A7 antibody (AAA126421). Overlay histogram showing HepG2 cells stained with AAA126421 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-OAT2/SLC22A7 Antibody (AAA126421, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



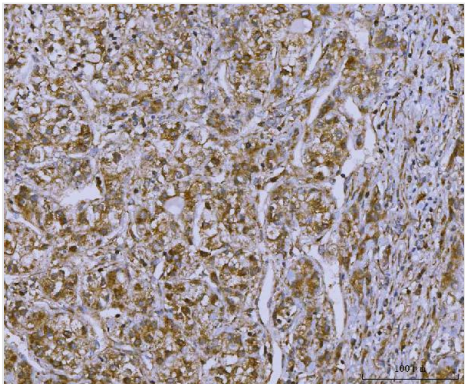
IHC (Immunohistochemistry)

Figure 3. IHC analysis of OAT2/SLC22A7 using anti-OAT2/SLC22A7 antibody (AAA126421). OAT2/SLC22A7 was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-OAT2/SLC22A7 Antibody (AAA126421) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



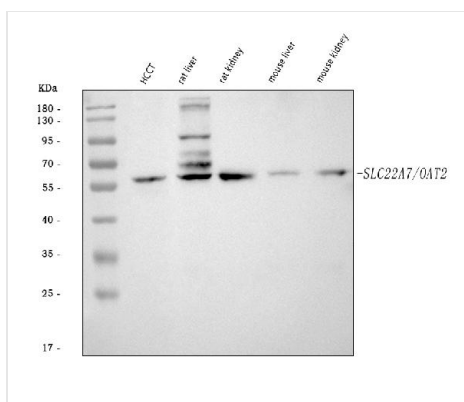
IHC (Immunohistochemistry)

Figure 4. IHC analysis of OAT2/SLC22A7 using anti-OAT2/SLC22A7 antibody (AAA126421). OAT2/SLC22A7 was detected in a paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-OAT2/SLC22A7 Antibody (AAA126421) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of OAT2/SLC22A7 using anti-OAT2/SLC22A7 antibody (AAA126421). OAT2/SLC22A7 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-OAT2/SLC22A7 Antibody (AAA126421) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of OAT2/SLC22A7 using anti-OAT2/SLC22A7 antibody (AAA126421). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HCCT tissue lysates, Lane 2: rat liver tissue lysates, Lane 3: rat kidney tissue lysates, Lane 4: mouse liver tissue lysates, Lane 5: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-OAT2/SLC22A7 antigen affinity purified polyclonal antibody (#AAA126421) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for OAT2/SLC22A7 at approximately 60 kDa. The expected band size for OAT2/SLC22A7 is at 60 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC22A7 antibody

Solute carrier family 22 member 7, also called SLC22A7 or OAT2 is a protein that in humans is encoded by the SLC22A7 gene. This gene is mapped to 6p21.1. The protein encoded by this gene is involved in the sodium-independent transport and excretion of organic anions, some of which are potentially toxic. The encoded protein is an integral membrane protein and appears to be localized to the basolateral membrane of the kidney. This gene transports prostaglandin E2, prostaglandin F2, tetracycline, bumetanide, estrone sulfate, glutarate, dehydroepiandrosterone sulfate, allopurinol, 5-fluorouracil, paclitaxel, L-ascorbic acid, salicylate, ethotrexate, and alpha-ketoglutarate.

Product Categories/Family for anti-SLC22A7 antibody

Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	74753520
NCBI GeneID	10864
UniProt Accession #	Q9Y694; Q5T046; Q5T048; Q5T050; Q9H2W5; B2CZX6
Molecular Weight	26,213 Da
NCBI Official Full Name	Solute carrier family 22 member 7
NCBI Official Synonym Full Names	solute carrier family 22 (organic anion transporter), member 7
NCBI Official Symbol	SLC22A7
NCBI Official Synonym Symbols	NLT; OAT2
NCBI Protein Information	solute carrier family 22 member 7; hOAT2; novel liver transporter; liver-specific transporter; organic anion transporter 2
UniProt Protein Name	Solute carrier family 22 member 7
UniProt Gene Name	SLC22A7

UniProt Synonym Gene Names	NLT; OAT2; hOAT2
UniProt Entry Name	S22A7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/oat2-slc22a7-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/126421>