

## Goat SLC7A11 / XCT Polyclonal Antibody | anti-SLC7A11 antibody

Goat Polyclonal to Human SLC7A11 / XCT

|                              |                     |                                    |                                                                  |
|------------------------------|---------------------|------------------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA52276</b> | HOST<br><b>Goat</b> | REACTIVITY<br><b>Human, Monkey</b> | APPLICATIONS<br><b>ELISA, Western Blot, Immunohistochemistry</b> |
|------------------------------|---------------------|------------------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

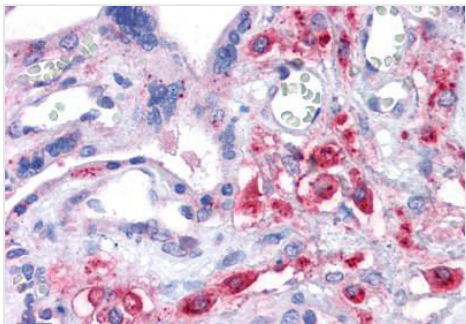
SLC7A11 / XCT; Polyclonal Antibody; Goat Polyclonal to Human SLC7A11 / XCT; Anti-SLC7A11 / XCT Antibody (Internal) IHC-plus; SLC7A11; CCB1; Cystine/glutamate transporter; XCT; Human SLC7A11; anti-SLC7A11 antibody

### PRODUCT SPECIFICATIONS

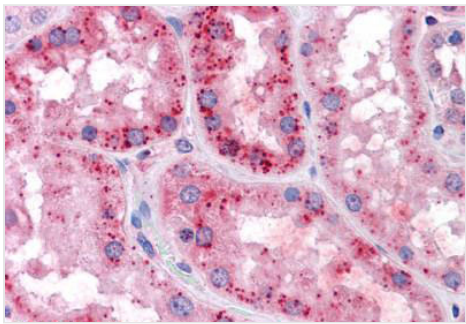
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|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Goat                                                                                                                                                                                                                                                                                                                  |
| Reactivity                                        | Human, Monkey                                                                                                                                                                                                                                                                                                         |
| Clonality                                         | Polyclonal                                                                                                                                                                                                                                                                                                            |
| Specificity                                       | Human SLC7A11.                                                                                                                                                                                                                                                                                                        |
| Purity/Purification                               | Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.                                                                                                                                                                                 |
| Form/Format                                       | TBS, pH 7.3, 0.5% BSA, 0.02% sodium azide                                                                                                                                                                                                                                                                             |
| Concentration                                     | 0.5 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                             |
| Sequence Length                                   | 501                                                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-SLC7A11 antibody | ELISA, WB (Western Blot), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                  |
| Target Species                                    | Human                                                                                                                                                                                                                                                                                                                 |
| Epitope                                           | aa215-229                                                                                                                                                                                                                                                                                                             |
| Family/Subfamily                                  | Transporter / Cationic amino acid transporter                                                                                                                                                                                                                                                                         |
| Immunogen                                         | SLC7A11/ XCT antibody was raised against peptide with sequence C-KGQTQNFKDAFSGRD, from the internal region of the protein sequence according to NP_055146.1                                                                                                                                                           |
| Disclaimer                                        | Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application. |

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|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Recommended Immunohistochemistry Protocol</b></p> | <p>The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:</p> <p><b>Tissue Preparation:</b><br/>Formalin fixation and embedding in paraffin wax.</p> <p><b>Tissue Sectioning:</b><br/>Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.</p> <p><b>Deparaffinization:</b><br/>Wash dry slides in 3 changes of xylene - 5 minutes each @ RT</p> <p><b>Rehydration:</b><br/>Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT<br/>Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT<br/>Wash slides in 1 change of 80% alcohol - 3 minutes @ RT<br/>Rinse slides in gentle running distilled water - 5 minutes @ RT</p> <p><b>Antigen retrieval:</b><br/>Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes<br/>Remove from heat and let stand at room temperature in buffer - 20 minutes<br/>Rinse in 1X TBS with Tween (TBST) -1 minute @ RT</p> <p><b>Immunostaining:</b><br/>(Do not allow tissues to dry at any time during the staining procedure)<br/>Apply a universal protein block - 20 minutes @ RT<br/>Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT<br/>Rinse slides in 1 X TBST - 1 minute @ RT<br/>Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT<br/>Rinse slides in 1X TBST -1 minute @ RT<br/>Apply alkaline phosphatase streptavidin - 30 minutes @ RT<br/>Rinse slides in 1X TBST -1 minute @ RT<br/>Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT<br/>Wash slides in distilled water - 1 minute @ RT</p> <p><b>Dehydrate:</b><br/>(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB)<br/>Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT<br/>Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT<br/>Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT<br/>Wash slides in 3 changes of xylene - 1 minute each @ RT<br/>Apply coverslip</p> |
| <p><b>Preparation and Storage</b></p>                   | <p>Aliquot and store at -20°C. Avoid freeze-thaw cycles.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

IMAGES



IHC (Immunohiostchemistry)  
Anti-SLC7A11 antibody IHC of human placenta. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 3.75 ug/ml.



IHC (Immunohistochemistry)  
Anti-SLC7A11 antibody IHC of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 3.75 ug/ml.

ADDITIONAL INFORMATION

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|-----------------------------------------------------|-----------------------------------------------------------------|
| Product Categories/Family for anti-SLC7A11 antibody | Family: Transporter; Subfamily: Cationic amino acid transporter |
|-----------------------------------------------------|-----------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 7657683                                                                                                                                                                                                                              |
| NCBI GeneID                      | 23657                                                                                                                                                                                                                                |
| NCBI Accession #                 | NP_055146.1                                                                                                                                                                                                                          |
| NCBI GenBank Nucleotide #        | NM_014331.3                                                                                                                                                                                                                          |
| UniProt Accession #              | Q9UPY5; A8K2U4                                                                                                                                                                                                                       |
| NCBI Official Full Name          | cystine/glutamate transporter                                                                                                                                                                                                        |
| NCBI Official Synonym Full Names | solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11                                                                                                                                          |
| NCBI Official Symbol             | SLC7A11                                                                                                                                                                                                                              |
| NCBI Official Synonym Symbols    | xCT; CCBR1                                                                                                                                                                                                                           |
| NCBI Protein Information         | cystine/glutamate transporter; amino acid transport system xc-; solute carrier family 7 member 11; calcium channel blocker resistance protein CCBR1; solute carrier family 7, (cationic amino acid transporter, y+ system) member 11 |
| UniProt Protein Name             | Cystine/glutamate transporter                                                                                                                                                                                                        |
| UniProt Gene Name                | SLC7A11                                                                                                                                                                                                                              |
| UniProt Entry Name               | XCT_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/slc7a11-xct-antibody-western-blot-immunohistochemistry-elisa/52276>