


## Product datasheet

# Anti-SLC1A5/ASCT2 antibody ab187692

★★★★★ [1 Abreviews](#) [3 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-SLC1A5/ASCT2 antibody
<b>Description</b>	Rabbit polyclonal to SLC1A5/ASCT2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Chimpanzee, Orangutan 
<b>Immunogen</b>	Synthetic peptide within Human SLC1A5/ASCT2 aa 450 to the C-terminus. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b>contact</b> our Scientific Support team to discuss your requirements. (NP_005619.1). Database link: <a href="#">Q15758</a> <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	HeLa, 293T and Jurkat whole cell lysate ( <a href="#">ab7899</a> ).
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate  pH 7 to 8

<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab187692 was affinity purified using an epitope specific to SLC1A5/ASCT2 immobilized on solid support.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

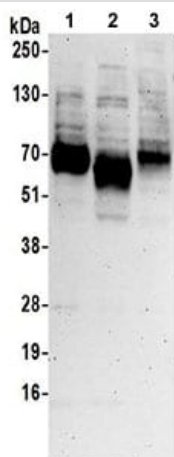
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab187692 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at 2-10 µg/mg of lysate.
WB	★★★★★ (1)	1/2000 - 1/10000. Predicted molecular weight: 56 kDa.

## Target

<b>Function</b>	Sodium-dependent amino acids transporter that has a broad substrate specificity, with a preference for zwitterionic amino acids. It accepts as substrates all neutral amino acids, including glutamine, asparagine, and branched-chain and aromatic amino acids, and excludes methylated, anionic, and cationic amino acids. May also be activated by insulin. Through binding of the fusogenic protein syncytin-1/ERVW-1 may mediate trophoblasts syncytialization, the spontaneous fusion of their plasma membranes, an essential process in placental development (PubMed:10708449, PubMed:23492904). Acts as a cell surface receptor for feline endogenous virus RD114, baboon M7 endogenous virus and type D simian retroviruses (PubMed:10051606, PubMed:10196349).
<b>Tissue specificity</b>	Placenta, lung, skeletal muscle, kidney, pancreas, and intestine.
<b>Sequence similarities</b>	Belongs to the dicarboxylate/amino acid:cation symporter (DAACS) (TC 2.A.23) family. SLC1A5 subfamily.
<b>Cellular localization</b>	Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

## Images



Western blot - Anti-SLC1A5/ASCT2 antibody  
(ab187692)

**All lanes :** Anti-SLC1A5/ASCT2 antibody (ab187692) at 0.1 µg/ml

**Lane 1 :** HeLa whole cell lysate

**Lane 2 :** 293T whole cell lysate

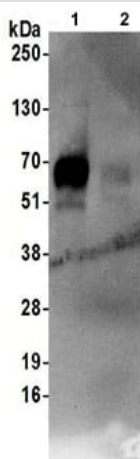
**Lane 3 :** Jurkat whole cell lysate

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

**Predicted band size:** 56 kDa

**Exposure time:** 3 minutes



Immunoprecipitation - Anti-SLC1A5/ASCT2 antibody  
(ab187692)

Detection of SLC1A5/ASCT2 in Immunoprecipitates of 293T whole cell lysate (1 mg for IP, 20% of IP loaded) using ab187692 at 6 µg/mg lysate for IP and at 1 µg/ml for subsequent Western blot detection. Lane 2 represents control IgG IP. Detection: Chemiluminescence with an exposure time of 30 seconds.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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