

Datasheet for ABIN1049350
anti-SLC7A2 antibody (Internal Region)



[Go to Product page](#)

3 Images

Overview

Quantity:	50 µg
Target:	SLC7A2
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat, Pig, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC7A2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 12 amino acid peptide from internal region of human SLC7A2. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Monkey, Mouse, Rat, Rabbit, Pig (100%), Orangutan, Gibbon, Galago, Marmoset, Hamster, Bovine, Bat, Horse (92%), Panda, Dog, Platypus (83%). Type of Immunogen: Synthetic peptide
Specificity:	Human SLC7A2. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except TPR (67 %).
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Monkey, Mouse, Rat, Rabbit, Pig (100%) Orangutan, Gibbon, Galago, Marmoset, Hamster, Bovine, Bat,

Product Details

Horse (92%) Panda, Dog, Platypus (83%).

Purification: Immunoaffinity purified

Target Details

Target: SLC7A2

Alternative Name: SLC7A2 ([SLC7A2 Products](#))

Background: Name/Gene ID: SLC7A2
Subfamily: Cationic amino acid transporter
Family: Transporter

Synonyms: SLC7A2, ATRC2, CAT2, HCAT2, CAT-2

Gene ID: 6542

Application Details

Application Notes: Approved: IHC, IHC-P (15 µg/mL)

Usage: Immunohistochemistry: This antibody was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for this antibody was determined to be 15 µg/mL.

Comment: Target Species of Antibody: Human

Assay Procedure: **The IHC-pro Immunohistochemistry Protocol**

Tissue Preparation

Formalin fixation and embedding in paraffin wax

Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

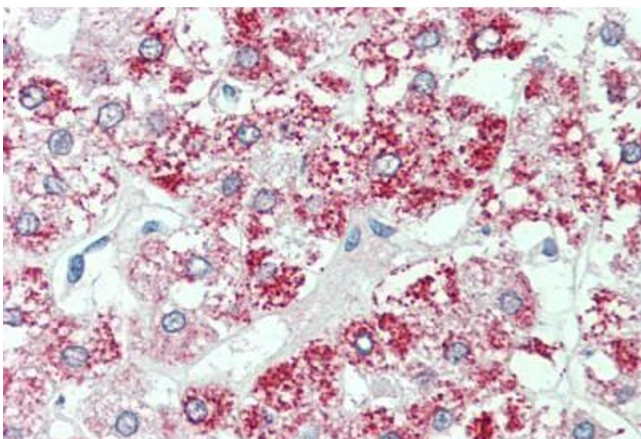
Apply coverslip

Restrictions: For Research Use only

Handling

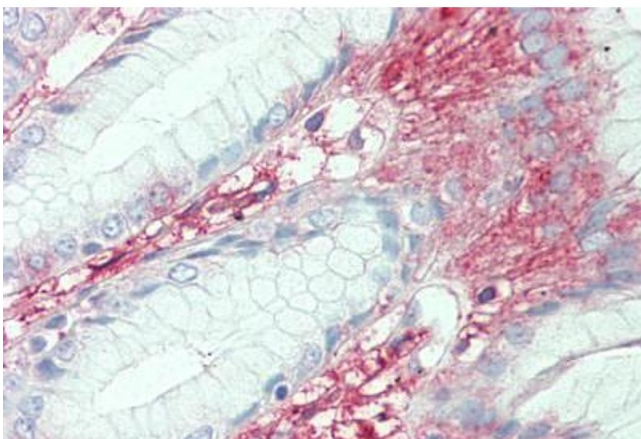
Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

Images



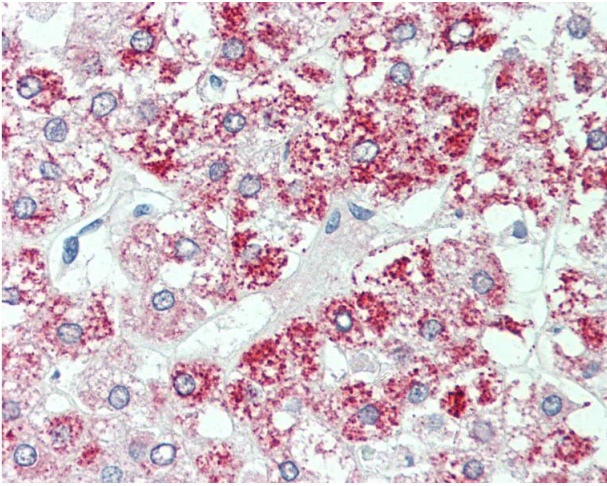
Immunohistochemistry

Image 1. Anti-SLC7A2 antibody ABIN1049350 IHC staining of human adrenal. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-SLC7A2 antibody ABIN1049350 IHC staining of human stomach. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 3. Anti-SLC7A2 antibody IHC of human adrenal. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.