Datasheet for ABIN1049340

anti-SLC4A2 antibody (N-Term)

3 Images

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Overview

Quantity:	50 µg
Target:	SLC4A2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Pig, Rabbit, Dog, Horse, Hamster
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC4A2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 18 amino acid peptide from N-Terminus of human SLC4A2. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Orangutan, Gibbon, Galago, Marmoset, Mouse, Rat, Hamster, Panda, Dog, Horse, Rabbit, Pig (100%), Monkey, Bovine, Guinea pig (94%), Elephant (89%), Bat, Opossum (83%). Type of Immunogen: Synthetic peptide
Specificity:	Human SLC4A2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Chimpanzee, Orangutan, Gibbon, Galago, Marmoset, Mouse, Rat, Hamster, Panda, Dog, Horse, Rabbit, Pig (100%)

Product Details

	Monkey, Bovine, Guinea pig (94%) Elephant (89%) Bat, Opossum (83%).
Purification:	Immunoaffinity purified

Target Details

Target:	SLC4A2
Alternative Name:	SLC4A2 / AE2 (SLC4A2 Products)
Background:	Name/Gene ID: SLC4A2 Subfamily: Anion exchanger Family: Transporter Synonyms: SLC4A2, Anion exchange protein 2, AE 2, Anion exchanger 2, Anion exchanger 2 type a, Anion exchanger 2 type b1, Anion exchanger 2 type b2, BND3L, EPB3L1, AE2, HKB3, MPB3L, Anion exchanger type 2, Erythrocyte band 3, NBND3
Gene ID:	6522

Application Details

Application Notes:	Approved: IHC, IHC-P (10 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 10 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

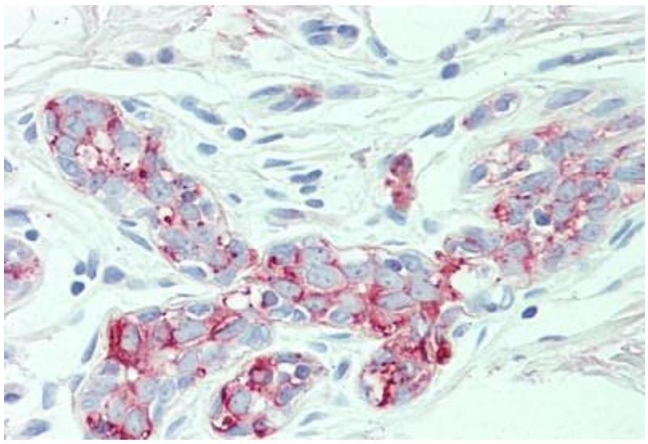
Application Details

Restrictions:	For Research Use only

Handling

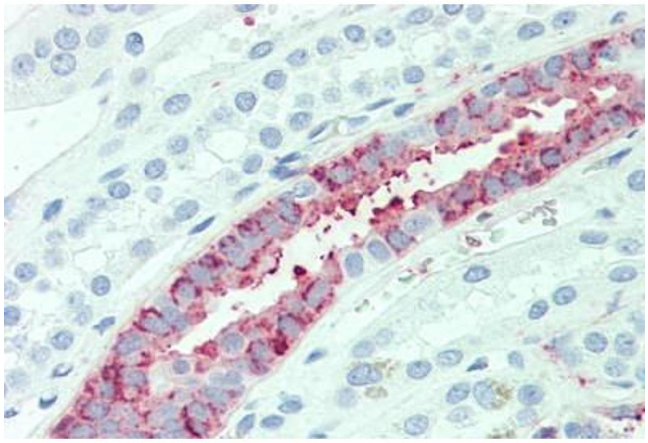
Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and 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



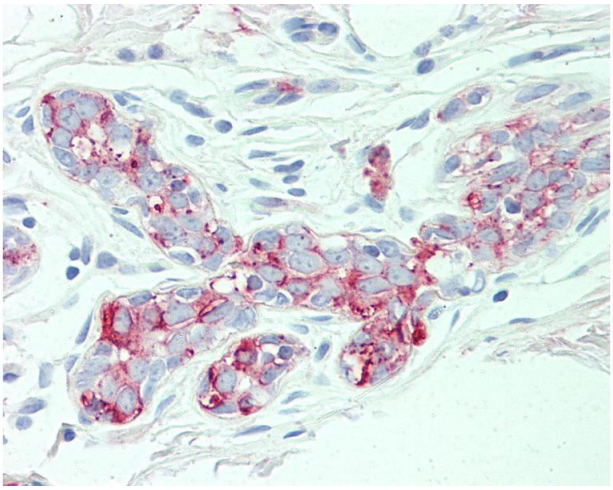
Immunohistochemistry

Image 1. Anti-SLC4A2 antibody ABIN1049340 IHC staining of human breast. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-SLC4A2 antibody ABIN1049340 IHC staining of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 3. Anti-SLC4A2 antibody IHC of human breast. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.