

Rabbit anti-Mouse, Rat SLC44A2 Polyclonal Antibody | anti-Slc44a2 antibody

Anti-SLC44A2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125750	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SLC44A2; Polyclonal Antibody; Anti-SLC44A2 Antibody; Slc44a2; Ctl2; Choline transporter-like protein 2; Solute carrier family 44 member 2; solute carrier family 44; member 2; anti-Slc44a2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for SLC44A2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-Slc44a2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse SLC44A2 recombinant protein (Position: M1-S706).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HEPA1-6 cells using anti-SLC44A2 antibody (AAA125750). Overlay histogram showing HEPA1-6 cells stained with AAA125750 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC44A2 Antibody (AAA125750, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of SLC44A2 using anti-SLC44A2 antibody (AAA125750). SLC44A2 was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-SLC44A2 Antibody (AAA125750) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of SLC44A2 using anti-SLC44A2 antibody (AAA125750). 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 30ug of sample under reducing conditions. Lane 1: mouse lung tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-SLC44A2 antigen affinity purified polyclonal antibody (Catalog # AAA125750) at 0.5 µg/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 SLC44A2 at approximately 80KD. The expected band size for SLC44A2 is at 80KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Slc44a2 antibody	Choline transporter-like protein 2 is a protein that in humans is encoded by the SLC44A2 gene. CTL2 is a multi-pass membrane protein expressed in cells of the inner ear. CTL2 is a possible candidate for autoimmune hearing loss in humans. Present in supporting cells of the inner ear (at protein level). Only isoform 3 is expressed in inner ear vestibular tissue.
References	- Greinacher, A., Wesche, J., Hammer, E., Furll, B., Volker, U., Reil, A., Bux, J. Characterization of the human neutrophil alloantigen-3a. Nature Med. 16: 45-48, 2010. - O'Regan, S., Traiffort, E., Ruat, M., Cha, N., Compaore, D., Meunier, F. -M. An electric lobe suppressor for a yeast choline transport mutation belongs to a new family of transporter-like proteins. Proc. Nat. Acad. Sci. 97: 1835-1840, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	312596932
NCBI GeneID	68682
NCBI Accession #	NP_001186115.1
NCBI GenBank Nucleotide #	NM_001199186.1
UniProt Accession #	Q8BY89; Q8K2F1
Molecular Weight	80,110 Da
NCBI Official Full Name	choline transporter-like protein 2 isoform 1
NCBI Official Synonym Full Names	solute carrier family 44, member 2
NCBI Official Symbol	Slc44a2
NCBI Official Synonym Symbols	CTL2; 1110028E10Rik
NCBI Protein Information	choline transporter-like protein 2
UniProt Protein Name	Choline transporter-like protein 2
UniProt Gene Name	Slc44a2
UniProt Synonym Gene Names	Ctl2
UniProt Entry Name	CTL2_MOUSE

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.

