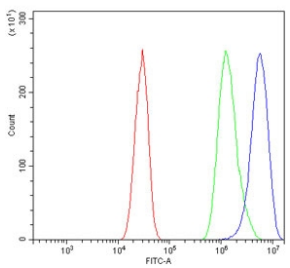
Slc7a9 Antibody (RQ6515)

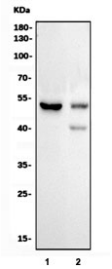
Catalog No.	Formulation	Size
RQ6515	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9QXA6
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Slc7a9 antibody is available for research use only.



Flow cytometry testing of mouse HEPA1-6 cells with Slc7a9 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Slc7a9 antibody.



Western blot testing of 1) rat kidney and 2) mouse kidney tissue lysate with Slc7a9 antibody. Predicted molecular weight ~54 kDa.

Description

b(0,+)-type amino acid transporter 1, also known as b(0,+)AT1, is a protein which in humans is encoded by the SLC7A9 gene. This gene encodes a protein that belongs to a family of light subunits of amino acid transporters. This protein plays a role in the high-affinity and sodium-independent transport of cystine and neutral and dibasic amino acids, and appears to function in the reabsorption of cystine in the kidney tubule. Mutations in this gene cause non-type I cystinuria, a disease that leads to cystine stones in the urinary system due to impaired transport of cystine and dibasic amino acids. Alternate transcript variants, which encode the same protein, have been found for this gene.

Application Notes

Optimal dilution of the Slc7a9 antibody should be determined by the researcher.

Immunogen

An E. coli-derived mouse protein (amino acids M1-E487) was used as the immunogen for the Slc7a9 antibody.

Storage

After reconstitution, the Slc7a9 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.