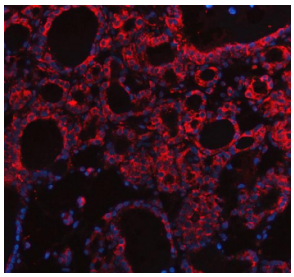
SLC39A10 Antibody / ZIP10 (RQ8830)

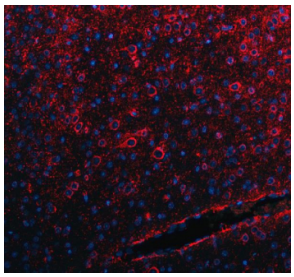
Catalog No.	Formulation	Size
RQ8830	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

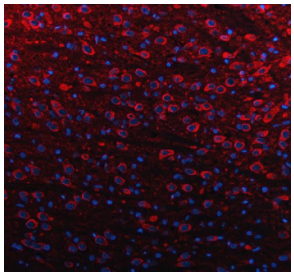
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9ULF5
Localization	Nuclear, cytoplasmic, cell membrane
Applications	Western Blot : 0.5-1ug/ml ELISA : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This SLC39A10 antibody is available for research use only.



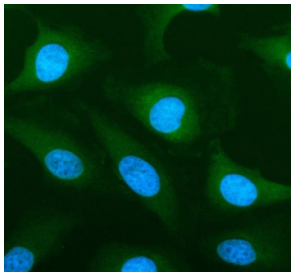
Immunofluorescent staining of FFPE human thyroid cancer tissue with SLC39A10 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



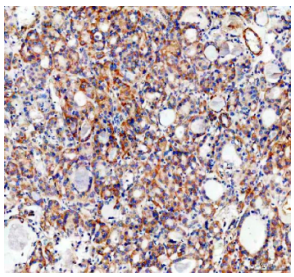
Immunofluorescent staining of FFPE mouse brain tissue with SLC39A10 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



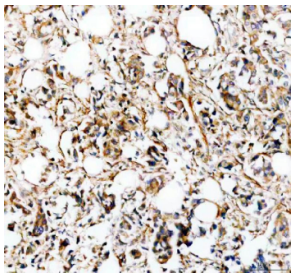
Immunofluorescent staining of FFPE rat brain tissue with SLC39A10 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



Immunofluorescent staining of FFPE human HeLa cells with SLC39A10 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



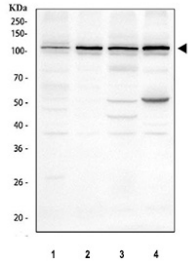
IHC staining of FFPE human thyroid cancer tissue with SLC39A10 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



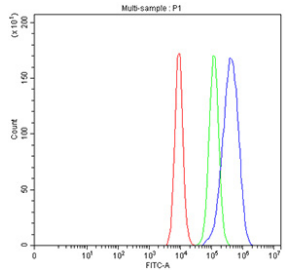
IHC staining of FFPE human breast cancer tissue with SLC39A10 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

IHC staining of FFPE mouse brain tissue with SLC39A10 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

IHC staining of FFPE rat brain tissue with SLC39A10 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa, 2) Caco-2, 3) A549 and 4) SiHa cell lysate with SLC39A10 antibody. Predicted molecular weight ~94 kDa.



Flow cytometry testing of fixed human Caco-2 cells with SLC39A10 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SLC39A10 antibody.

Description

SLC39A10 (solute carrier family 39 member 10), also known as ZIP10, is a zinc transporter protein that plays a central role in regulating cellular zinc uptake and homeostasis. It belongs to the ZIP family (Zrt/Irt-like proteins), which increases cytosolic zinc concentrations by importing zinc from extracellular space or intracellular stores. A SLC39A10 antibody is widely used in research focused on metal ion transport, nutritional regulation, and cellular signaling pathways influenced by zinc.

Zinc is a critical cofactor for numerous enzymes and transcription factors, and SLC39A10 ensures adequate intracellular levels to support diverse physiological processes. Studies have shown that ZIP10 is particularly important in the immune system, nervous system development, and metabolic regulation. Using a SLC39A10 antibody allows researchers to investigate its expression across tissues and to explore how zinc transport impacts cell growth, differentiation, and survival.

Dysregulation of SLC39A10 has been linked to several pathological conditions. Abnormal expression has been reported in certain cancers, where altered zinc homeostasis contributes to tumor progression and metastasis. Additionally, research suggests that SLC39A10 may influence B cell development and adaptive immunity, making it relevant in immunological studies. Employing a SLC39A10 antibody enables detailed analysis of its roles in both normal physiology and disease states.

NSJ Bioreagents provides a high-quality SLC39A10 antibody validated for applications such as western blot, immunohistochemistry, and immunofluorescence. By choosing a SLC39A10 antibody from NSJ Bioreagents, researchers gain a reliable tool for advancing studies in zinc biology, immune function, and cancer research.

Application Notes

Optimal dilution of the SLC39A10 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids H29-H379) was used as the immunogen for the SLC39A10 antibody.

Storage

After reconstitution, the SLC39A10 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.