

SLC39A10 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5464c**Specification**

SLC39A10 Antibody (Center) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	O9ULF5
Other Accession	NP_001120729.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	288-317

SLC39A10 Antibody (Center) - Additional Information**Gene ID** 57181**Other Names**

Zinc transporter ZIP10, Solute carrier family 39 member 10, Zrt- and Irt-like protein 10, ZIP-10, SLC39A10, KIAA1265, ZIP10

Target/Specificity

This SLC39A10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 288-317 amino acids from the Central region of human SLC39A10.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SLC39A10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC39A10 Antibody (Center) - Protein Information**Name** SLC39A10 ([HGNC:20861](#))

Synonyms KIAA1265, ZIP10

Function Zinc-influx transporter (PubMed:[17359283](#), PubMed:[27274087](#), PubMed:[30520657](#)). When associated with SLC39A6, the heterodimer formed by SLC39A10 and SLC39A6 mediates cellular zinc uptake to trigger cells to undergo epithelial-to-mesenchymal transition (EMT) (PubMed:[23186163](#)). SLC39A10-SLC39A6 heterodimers play also an essential role in initiating mitosis by importing zinc into cells to initiate a pathway resulting in the onset of mitosis (PubMed:[32797246](#)). Plays an important role for both mature B-cell maintenance and humoral immune responses (By similarity). When associated with SLC39A10, the heterodimer controls NCAM1 phosphorylation and integration into focal adhesion complexes during EMT (By similarity).

Cellular Location

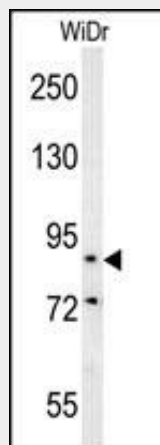
Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein. Note=Expressed at the apical membranes of proximal tubules in the kidney.

SLC39A10 Antibody (Center) - Protocols

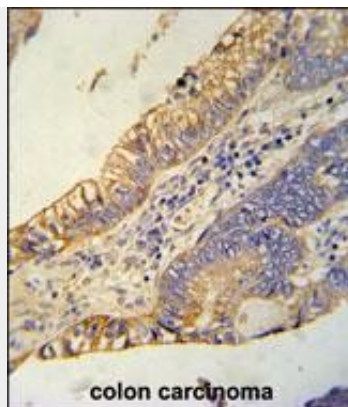
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

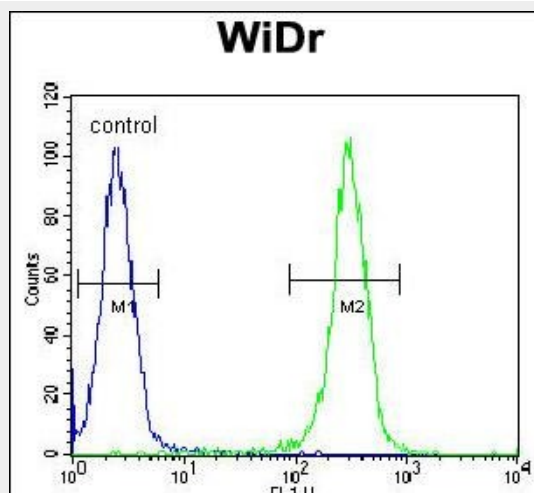
SLC39A10 Antibody (Center) - Images



SLC39A10 Antibody (Center) (Cat.#AP5464c) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the SLC39A10 antibody detected the SLC39A10 protein (arrow).



SLC39A10 Antibody (Center) (Cat. #AP5464c) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SLC39A10 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



SLC39A10 Antibody (Center) (Cat. #AP5464c) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

SLC39A10 Antibody (Center) - Background

Zinc is an essential cofactor for hundreds of enzymes. It is involved in protein, nucleic acid, carbohydrate, and lipid metabolism, as well as in the control of gene transcription, growth, development, and differentiation. SLC39A10 belongs to a subfamily of proteins that show structural characteristics of zinc transporters (Taylor and Nicholson, 2003 [PubMed 12659941]).

SLC39A10 Antibody (Center) - References

Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008)
Taylor, K.M., et al. Biochim. Biophys. Acta 1611 (1-2), 16-30 (2003) :