

Datasheet for ABIN7581979

anti-SLC39A10 antibody (AA 259-273) (FITC)



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Overview

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| Quantity: | 50 µL |
| Target: | SLC39A10 |
| Binding Specificity: | AA 259-273 |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SLC39A10 antibody is conjugated to FITC |
| Application: | Live Cell Imaging (LCI), Flow Cytometry (FACS) |

Product Details

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| Purpose: | A Rabbit Polyclonal Antibody to ZIP10/SLC39A10 conjugated to fluorescein isothiocyanate (FITC) fluorophore |
| Immunogen: | (C)EQYEHNRVHKLDRVH, corresponding to amino acid residues 259 - 273 of mouse SLC39A10 |
| Sequence: | (C)EQYEHNRVHK LDRVH |
| Isotype: | IgG |
| Predicted Reactivity: | Rat - identical. Human - 14 out of 15 amino acid identical. |
| Characteristics: | Anti-ZIP10/SLC39A10 (extracellular) Antibody (ABIN7581978) is a highly specific antibody directed against an extracellular epitope of the mouse protein. The antibody can be used in western blot, immunohistochemistry and flow cytometry applications. It has been designed to recognize ZIP10 from mouse, rat and human samples. Anti-ZIP10/SLC39A10 (extracellular)-FITC Antibody (ABIN7581978)-F is directly conjugated to fluorescein isothiocyanate (FITC) |

Product Details

fluorophore. This conjugated antibody has been developed to be used in immunofluorescent applications such as direct flow cytometry and live cell imaging.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: SLC39A10

Alternative Name: SLC39A10 ([SLC39A10 Products](#))

Background: Zinc transporter ZIP10, Zrt- and Irt-like protein 10, Solute Carrier Family 39 Member 10, ZIP10, also known as Solute Carrier Family 39 Member 10 (SLC39A10), is a zinc transporter protein that belongs to the ZIP (Zrt-, Irt-like Protein) family.¹⁻³ The ZIP family includes 14 members (ZIP1 to ZIP14), that play a critical role in the transport of metal ions, primarily zinc, iron, and manganese, across cell membranes. ZIP family members are primarily involved in the uptake of zinc and iron into the cytoplasm from the extracellular space or from intracellular organelles. Their function mostly increases the cytoplasmic concentration of these metals by transporting them across cellular membranes.¹⁻³ ZIP10 is expressed at the cell membrane and serves as a zinc importer into cells. ZIP10 expression is also modulated by the available zinc concentration: upregulated in the presence of low zinc concentrations and downregulated when zinc is present in excess. ^{2,3} ZIP10 plays a central role in immune function regulation in both the adaptive and innate immune system. ZIP10 regulates B-cell and T-cell development and function as well as having a role in the modulation of the inflammatory response in macrophages. ^{4,5} ZIP10 is expressed in several organs like kidney and the central nervous system, but its exact physiological function is still not clear. Dysregulated zinc homeostasis is linked to the development and progression of several cancers and ZIP10, in particular, has garnered attention for its involvement in cancer biology in particular through its heteromer formation with ZIP6, another ZIP family member.^{2,6-8} ZIP10 has been shown to be involved in the regulation of cell proliferation, cell migration and invasion and the regulation of apoptosis, in several cancer types including pancreatic, breast and prostate, suggesting that the inhibition of ZIP10 function could represent a therapeutic target in these and other tumors.⁶⁻⁸

Gene ID: 227059

UniProt: [Q6P5F6](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Application Details

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| Comment: | Negative Control: (ABIN7582044) Blocking Peptide: |
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| Restrictions: | For Research Use only |
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Handling

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| Format: | Lyophilized |
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| Reconstitution: | 15 µL or 50 µL double distilled water (DDW), depending on the sample size. |
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| Concentration: | 1 mg/mL |
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| Buffer: | Lyophilized powder. Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide. |
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| Preservative: | Sodium azide |
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| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
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| Storage: | 4 °C,-20 °C |
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| Storage Comment: | Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min). |
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