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## anti-SLC39A3 antibody (1st Extracellular Loop)

3 Images



Go to Product page

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| Overview             |  |  |
|----------------------|--|--|
| Quantity:            | 25 μL  |  |
| Target:              | SLC39A3  |  |
| Binding Specificity: | 1st Extracellular Loop, AA 31-42   |  |
| Reactivity:          | Human, Mouse, Rat  |  |
| Host:                | Rabbit   |  |
| Clonality:           | Polyclonal   |  |
| Conjugate:           | This SLC39A3 antibody is un-conjugated   |  |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)   |  |
| Product Details      |  |  |
| Immunogen:           | Immunogen: Synthetic peptide Immunogen Sequence: (C)EADFEKAHRSKK, corresponding to amino acid residues 31-42 of rat ZIP3   |  |
| Isotype:             | IgG  |  |
| Characteristics:     | Anti-ZIP3 (SLC39A3) Antibody is directed against an epitope of the rat Zinc transporter ZIP3.  Anti-ZIP3 (SLC39A3) Antibody (ABIN7043724, ABIN7045346 and ABIN7045347)) can be used in western blot and immunohistochemistry applications. It has been designed to recognize ZIP3 from mouse, rat and human samples. |  |
| Purification:        | Affinity purified on immobilized antigen.  |  |

## **Target Details**

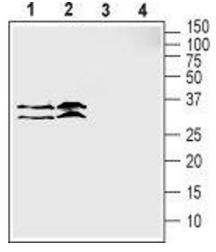
| Target:           | SLC39A3   |
|-------------------|---|
| Alternative Name: | ZIP3 (SLC39A3) (SLC39A3 Products)   |
| Background:       | Alternative names: ZIP3 (SLC39A3), Zinc transporter ZIP3, Zrt- and Irt-like protein 3 |
| Gene ID:          | 314637  |
| NCBI Accession:   | NM_144564   |
| UniProt:          | Q5U1X7  |
| Pathways:         | NF-kappaB Signaling, Neurotrophin Signaling Pathway, Autophagy                        |

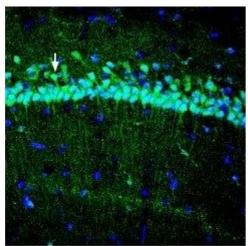
## **Application Details**

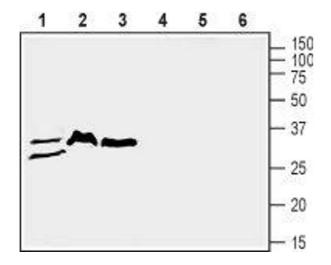
| Application Notes: | Optimal working dilution should be determined by the investigator. |
|--------------------|--|
| Restrictions:      | For Research Use only  |

## Handling

| Format:            | Lyophilized   |
|--------------------|---|
| Reconstitution:    | $25~\mu\text{L},50~\mu\text{L}$ or 0.2 mL double distilled water (DDW), depending on the sample size.   |
| Concentration:     | 0.8 mg/mL   |
| Buffer:            | Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.  |
| Preservative:      | Sodium azide  |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.  |
| Storage:           | RT,4 °C,-20 °C  |
| 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). |







#### **Western Blotting**

**Image 1.** Western blot analysis of human MCF-7 breast adenocarcinoma cell lysate (lanes 1 and 3) and human LNCaP prostate adenocarcinoma cell lysate (lanes 2 and 4):

- 1,2. Anti-ZIP3 (SLC39A3) Antibody (ABIN7043724, ABIN7045346 and ABIN7045347), (1:200).3,4. Anti-ZIP3 (SLC39A3) Antibody, preincubated with ZIP3/SLC39A3 Blocking Peptide (#BLP-ZT003).

#### **Immunohistochemistry**

**Image 2.** Expression of Zinc transporter ZIP3 in rat hippocampus - Immunohistochemical staining of perfusion-fixed frozen rat brain sections using Anti-ZIP3 (SLC39A3) Antibody (ABIN7043724, ABIN7045346 and ABIN7045347), (1:400), followed by goat-anti-rabbit-AlexaFluor-488 antibody. ZIP3 staining (green) appears in CA1 neurons in the pyramidal layer (arrow). Nuclei are labeled with DAPI (blue).

#### **Western Blotting**

Image 3. Western blot analysis of mouse lung (lanes 1 and 4), rat brain (lanes 2 and 5) and mouse brain (lanes 3 and 6) lysates:

- 1-3. Anti-ZIP3 (SLC39A3)

Antibody (ABIN7043724, ABIN7045346 and ABIN7045347),
(1:400).4-6. Anti-ZIP3 (SLC39A3) Antibody, preincubated with ZIP3/SLC39A3 Blocking Peptide (#BLP-ZT003).