

**SLC39A6 / LIV-1 Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11086****Specification**

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**SLC39A6 / LIV-1 Antibody (N-Terminus) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC                    |
| Primary Accession | <a href="#">Q13433</a> |
| Reactivity        | Human, Monkey          |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 85kDa KDa              |

**SLC39A6 / LIV-1 Antibody (N-Terminus) - Additional Information****Gene ID** 25800**Other Names**

Zinc transporter ZIP6, Estrogen-regulated protein LIV-1, Solute carrier family 39 member 6, Zrt- and Irt-like protein 6, ZIP-6, SLC39A6, LIV1, ZIP6

**Target/Specificity**

Human SLC39A6. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

SLC39A6 / LIV-1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC39A6 / LIV-1 Antibody (N-Terminus) - Protein Information****Name** SLC39A6 ([HGNC:18607](#))**Synonyms** LIV1, ZIP6**Function**

Zinc-influx transporter which plays a role in zinc homeostasis and in the induction of epithelial-to-mesenchymal transition (EMT) (PubMed:<a href="http://www.uniprot.org/citations/27274087" target="\_blank">27274087</a>, PubMed:<a href="http://www.uniprot.org/citations/18272141" target="\_blank">18272141</a>, PubMed:<a href="http://www.uniprot.org/citations/21422171" target="\_blank">21422171</a>, PubMed:<a href="http://www.uniprot.org/citations/34394081" target="\_blank">34394081</a>, PubMed:<a href="http://www.uniprot.org/citations/23919497" target="\_blank">23919497</a>, PubMed:<a href="http://www.uniprot.org/citations/12839489" target="\_blank">12839489</a>). When associated with SLC39A10, the heterodimer formed by SLC39A10 and SLC39A6 mediates cellular

zinc uptake to trigger cells to undergo epithelial- to- mesenchymal transition (EMT) (PubMed:<a href="http://www.uniprot.org/citations/27274087" target="\_blank">27274087</a>). The SLC39A10-SLC39A6 heterodimer also controls NCAM1 phosphorylation and its integration into focal adhesion complexes during EMT (By similarity). Zinc influx inactivates GSK3B, enabling unphosphorylated SNAI1 in the nucleus to down-regulate adherence genes such as CDH1, causing loss of cell adherence (PubMed:<a href="http://www.uniprot.org/citations/23919497" target="\_blank">23919497</a>). In addition, the SLC39A10-SLC39A6 heterodimer plays an essential role in initiating mitosis by importing zinc into cells to initiate a pathway resulting in the onset of mitosis (PubMed:<a href="http://www.uniprot.org/citations/32797246" target="\_blank">32797246</a>). Participates in the T-cell receptor signaling regulation by mediating cellular zinc uptake into activated lymphocytes (PubMed:<a href="http://www.uniprot.org/citations/30552163" target="\_blank">30552163</a>, PubMed:<a href="http://www.uniprot.org/citations/21422171" target="\_blank">21422171</a>, PubMed:<a href="http://www.uniprot.org/citations/34394081" target="\_blank">34394081</a>). Regulates the zinc influx necessary for proper meiotic progression to metaphase II (MII) that allows the oocyte-to-egg transition (PubMed:<a href="http://www.uniprot.org/citations/25143461" target="\_blank">25143461</a>).

### Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, lamellipodium membrane; Multi-pass membrane protein. Membrane raft; Multi-pass membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:Q4V887} Note=Localizes to lipid rafts in T cells and is recruited into the immunological synapse in response to TCR stimulation (PubMed:34394081) In the choroid plexus is limited to the apical membrane in epithelial cells (By similarity). {ECO:0000250|UniProtKB:Q4V887, ECO:0000269|PubMed:34394081}

### Tissue Location

Highly expressed in the breast, prostate, placenta, kidney, pituitary and corpus callosum (PubMed:12839489). Weakly expressed in heart and intestine. Also highly expressed in cells derived from an adenocarcinoma of the cervix and lung carcinoma (PubMed:12839489).

### Volume

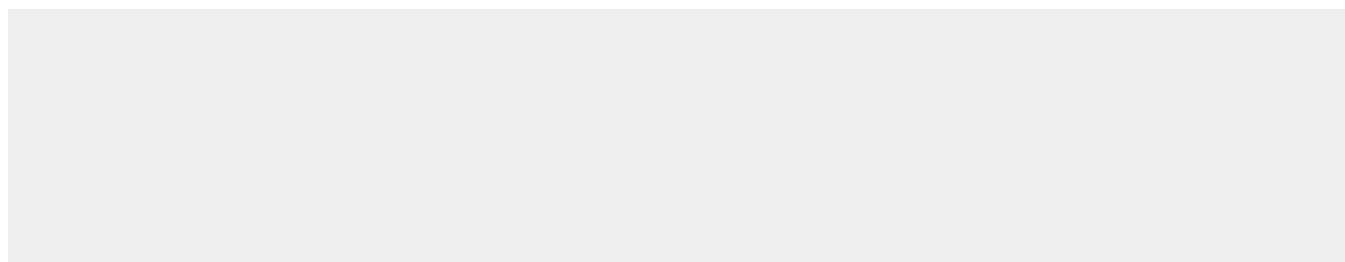
50 µl

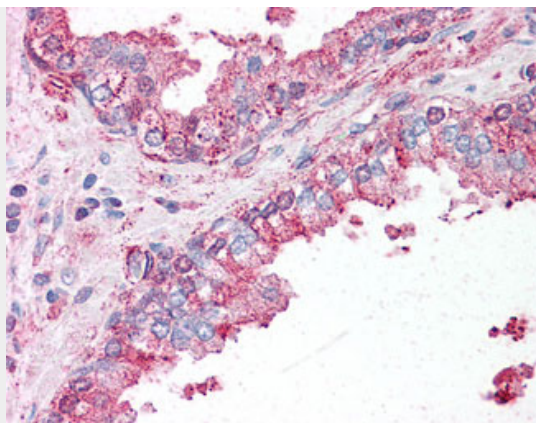
## SLC39A6 / LIV-1 Antibody (N-Terminus) - Protocols

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](#)

## SLC39A6 / LIV-1 Antibody (N-Terminus) - Images





Anti-SLC39A6 antibody ALS11086 IHC of human prostate.

### **SLC39A6 / LIV-1 Antibody (N-Terminus) - Background**

May act as a zinc-influx transporter.

### **SLC39A6 / LIV-1 Antibody (N-Terminus) - References**

Green C.,et al.Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Nusbaum C.,et al.Nature 437:551-555(2005).  
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).