

**SLC39A9 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50829****Specification**

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**SLC39A9 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9NUM3</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32,30,25 KDa
Antigen Region	118-146

**SLC39A9 Antibody - Additional Information****Gene ID** 55334**Other Names**

Zinc transporter ZIP9, Solute carrier family 39 member 9, Zrt- and Irt-like protein 9, ZIP-9, SLC39A9, ZIP9

**Dilution**

WB~~ 1:1000

**Format**Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

**SLC39A9 Antibody - Protein Information****Name** SLC39A9 ([HGNC:20182](#))**Synonyms** ZIP9**Function**

Transports zinc ions across cell and organelle membranes into the cytoplasm and regulates intracellular zinc homeostasis (PubMed: [25014355](http://www.uniprot.org/citations/25014355), PubMed: [19420709](http://www.uniprot.org/citations/19420709), PubMed: [28219737](http://www.uniprot.org/citations/28219737)). Participates in the zinc ions efflux out of the secretory compartments (PubMed: [19420709](http://www.uniprot.org/citations/19420709)). Regulates intracellular zinc level, resulting in the enhancement of AKT1 and MAPK3/MAPK1 (Erk1/2) phosphorylation in response to the BCR activation (PubMed: [23505453](http://www.uniprot.org/citations/23505453)).

Also functions as a membrane androgen receptor that mediates, through a G protein, the non-classical androgen signaling pathway, characterized by the activation of MAPK3/MAPK1 (Erk1/2) and transcription factors CREB1 or ATF1 (By similarity). This pathway contributes to CLDN1 and CLDN5 expression and tight junction formation between adjacent Sertoli cells (By similarity). Mediates androgen-induced vascular endothelial cell proliferation through activation of an inhibitory G protein leading to the AKT1 and MAPK3/MAPK1 (Erk1/2) activation which in turn modulate inhibition (phosphorylation) of GSK3B and CCND1 transcription (PubMed:<a href="http://www.uniprot.org/citations/34555425" target="\_blank">34555425</a>). Moreover, has dual functions as a membrane-bound androgen receptor and as an androgen-dependent zinc transporter both of which are mediated through an inhibitory G protein (Gi) that mediates both MAP kinase and zinc signaling leading to the androgen-dependent apoptotic process (PubMed:<a href="http://www.uniprot.org/citations/25014355" target="\_blank">25014355</a>, PubMed:<a href="http://www.uniprot.org/citations/28219737" target="\_blank">28219737</a>).

### Cellular Location

Golgi apparatus, trans-Golgi network membrane. Cell membrane; Multi-pass membrane protein. Cytoplasm, perinuclear region Mitochondrion. Nucleus

### Tissue Location

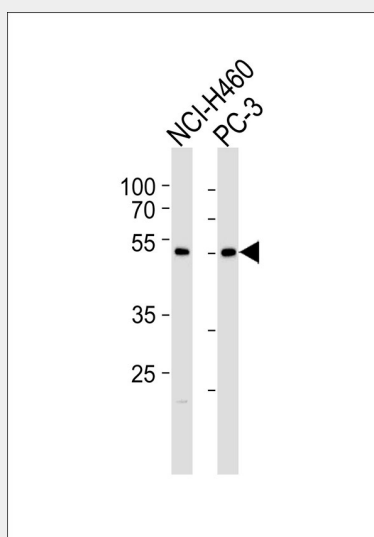
Highly expressed in pancreas, testis, and pituitary and moderately in the kidney, liver, uterus, heart, prostate, and brain, whereas expression is lower in the ovary and colon

## SLC39A9 Antibody - 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](#)

## SLC39A9 Antibody - Images



Western blot analysis of lysates from NCI-H460,PC-3 cell line (from left to right),using SLC39A9 Antibody, was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.

#### **SLC39A9 Antibody - Background**

May act as a zinc-influx transporter (By similarity).

#### **SLC39A9 Antibody - References**

Clark H.F.,et al.Genome Res. 13:2265-2270(2003).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Lin L.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.