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

Specification

SLC39A9 Antibody - Product Information

Application	**WB**
Primary Accession	Q9NUM3
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 Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions
-20℃

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, PubMed:19420709, PubMed:28219737). Participates in the zinc ions efflux out of the secretory compartments (PubMed: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).

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:34555425). 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:25014355, PubMed:28219737).

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

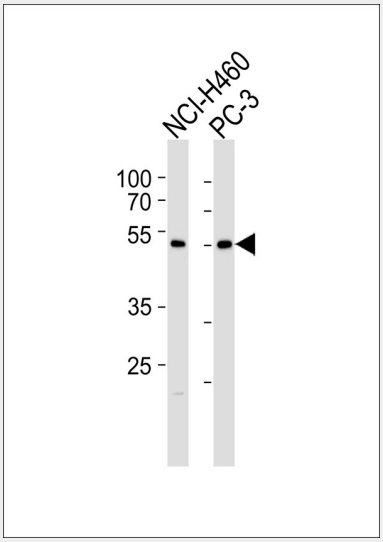
Tissue Location
Highly expressed in pancreas, testis, and pituitary and moderately in the kidney, liver, uterus, heart, prostate, and brain, whereas expression is lower in the ovary and colon

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 Cytomety
- Cell Culture

SLC39A9 Antibody - Images



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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.