

**ZIP9 Polyclonal Antibody**  
**Catalog # AP73134****Specification****ZIP9 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9NUM3</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal

**ZIP9 Polyclonal Antibody - Additional Information****Gene ID** 55334**Other Names**

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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**ZIP9 Polyclonal 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:<a href="http://www.uniprot.org/citations/25014355" target="\_blank">25014355</a>, PubMed:<a href="http://www.uniprot.org/citations/19420709" target="\_blank">19420709</a>, PubMed:<a href="http://www.uniprot.org/citations/28219737" target="\_blank">28219737</a>). Participates in the zinc ions efflux out of the secretory compartments (PubMed:<a href="http://www.uniprot.org/citations/19420709" target="\_blank">19420709</a>). Regulates intracellular zinc level, resulting in the enhancement of AKT1 and MAPK3/MAPK1 (Erk1/2) phosphorylation in response to the BCR activation (PubMed:<a href="http://www.uniprot.org/citations/23505453" target="\_blank">23505453</a>). 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

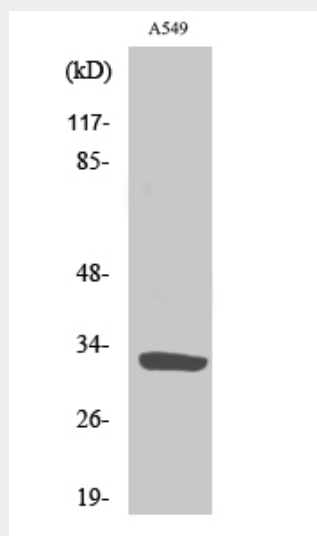
Highly expressed in pancreas, testis, and pituitary and moderately in the kidney, liver, uterus, heart, prostate, and brain, whereas expression is lower in the ovary and colon

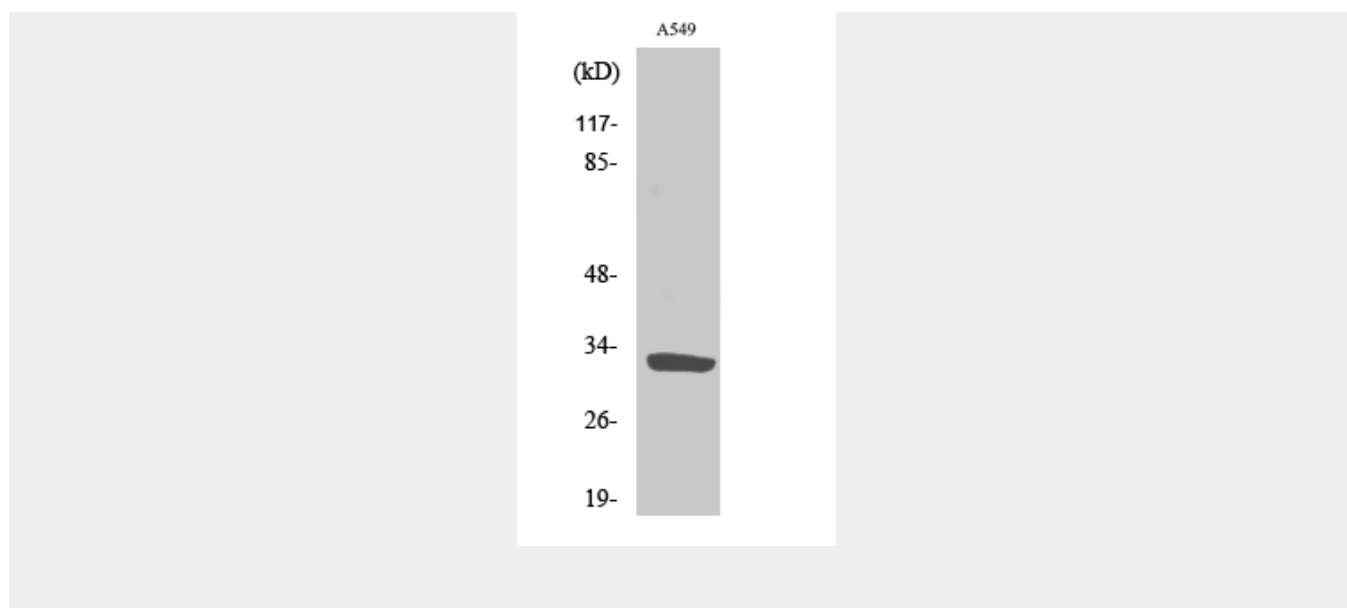
### ZIP9 Polyclonal Antibody - Protocols

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](#)

### ZIP9 Polyclonal Antibody - Images





### ZIP9 Polyclonal Antibody - Background

May act as a zinc-influx transporter.