

# ZNT1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP53375

## Product Information

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Application	WB
Primary Accession	<a href="#">Q9Y6M5</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55300

## Additional Information

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Gene ID	7779
Other Names	Zinc transporter 1, ZnT-1, Solute carrier family 30 member 1, SLC30A1, ZNT1
Dilution	WB~~ 1:500
Format	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	SLC30A1 ( <a href="#">HGNC:11012</a> )
Function	<p>Zinc ion:proton antiporter that could function at the plasma membrane mediating zinc efflux from cells against its electrochemical gradient protecting them from intracellular zinc accumulation and toxicity (PubMed:<a href="#">31471319</a>). Alternatively, could prevent the transport to the plasma membrane of CACNB2, the L-type calcium channels regulatory subunit, through a yet to be defined mechanism. By modulating the expression of these channels at the plasma membrane, could prevent calcium and zinc influx into cells. By the same mechanism, could also prevent L-type calcium channels-mediated heavy metal influx into cells (By similarity). In some cells, could also function as a zinc ion:proton antiporter mediating zinc entry into the lumen of cytoplasmic vesicles. In macrophages, can increase zinc ions concentration into the lumen of cytoplasmic vesicles containing engulfed bacteria and could help inactivate them (PubMed:<a href="#">32441444</a>). Forms a complex with TMC6/EVER1 and TMC8/EVER2 at the ER membrane of keratynocytes which facilitates zinc uptake into the ER (PubMed:<a href="#">18158319</a>). Down-regulates the activity of transcription factors induced by zinc and cytokines (PubMed:<a href="#">18158319</a>).</p>
Cellular Location	Cell membrane; Multi-pass membrane protein. Basolateral cell membrane;

Multi-pass membrane protein. Cytoplasmic vesicle membrane; Multi-pass membrane protein. Cytoplasm. Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Nucleus membrane; Multi-pass membrane protein.

Note=Localization to the plasma membrane is regulated by cellular zinc status. Recruitment to the plasma membrane from an internal pool is stimulated by zinc while in absence of zinc the plasma membrane pool is endocytosed and degraded (PubMed:31471319). Localizes to the basolateral surface of enterocytes (By similarity). Localizes to zinc-containing intracellular vesicles in macrophages (PubMed:32441444). Localizes in the cytoplasm and to the ER, Golgi and nucleus membranes in keratinocytes (PubMed:18158319) {ECO:0000250|UniProtKB:Q62720, ECO:0000269|PubMed:18158319, ECO:0000269|PubMed:31471319, ECO:0000269|PubMed:32441444}

## Background

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May be involved in zinc transport out of the cell.

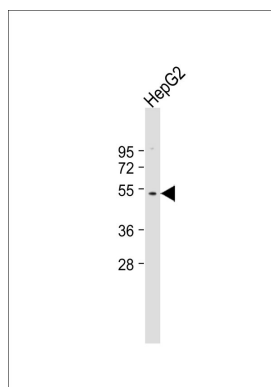
## References

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Nanji M.S.,et al.Submitted (NOV-2000) to the EMBL/GenBank/DDBJ databases.  
Goshima N.,et al.Submitted (JUL-2008) to the EMBL/GenBank/DDBJ databases.  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Inoue H.,et al.Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.  
Olsen J.V.,et al.Cell 127:635-648(2006).

## Images

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Anti-ZNT1 Antibody at 1:500 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 55 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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