ZIP7
Polyclonal ANTIBODY
Catalog Number: 19429-1-AP

Basic Information
Catalog Number: 19429-1-AP
Size: 32 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG13762

GenBank Accession Number: BC000645
GeneID (NCBI): 7922
Full Name: solute carrier family 39 (zinc transporter), member 7
Calculated MW: 469aa, 50 kDa
Observed MW: 50 kDa, 56 kDa

Recommended Dilutions:
- WB: 1:1000-1:4000
- IP: 0.5-4.0 μg for IP and 1:1000-1:1000 for WB
- IHC: 1:200-1:200

Applications
Tested Applications: IHC, IP, WB, ELISA
Cited Applications: IF, IHC, WB
Species Specificity: human, mouse
Cited Species: human, mouse

Recommended Dilutions:
- WB: mouse liver tissue, MCF-7 cells, rat liver tissue
- IP: mouse brain tissue
- IHC: human kidney tissue, human placenta tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information
ZIP7 is a functional zinc transporter transporting zinc from the Golgi apparatus to the cytoplasm of the cell. ZIP7 is post-translationally regulated by CK2-mediated phosphorylation. This ZIP7 phosphorylation results in zinc release from intracellular stores, which activates multiple tyrosine kinases and regulates cell survival and proliferation. Dual bands of 50 kDa and 56 kDa detected by this antibody may represent the native and phosphorylated forms of ZIP7, respectively. (PMID: 28232492, 28205653)

Notable Publications
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<th>Author</th>
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<td>Silvia Ziliotto</td>
<td>31483418</td>
<td>Metallomics</td>
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<td>Johanna Ollig</td>
<td>30448545</td>
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<td>Ying Liu</td>
<td>25968539</td>
<td>J Biol Chem</td>
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Storage
Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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mouse liver tissue were subjected to SDS PAGE followed by western blot with 19429-1-AP (ZIP7 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human kidney using 19429-1-AP (ZIP7 antibody) at dilution of 1:100 (under 10x lens)

Immunohistochemical analysis of paraffin-embedded human kidney using 19429-1-AP (ZIP7 antibody) at dilution of 1:100 (under 40x lens)

IP Result of anti-ZIP7 (IP:19429-1-AP, 4ug; Detection:19429-1-AP 1:500) with mouse brain tissue lysate 4000ug.