BACKGROUND
SLC39A12 (solute carrier family 39 (zinc transporter), member 12), also known as ZIP12 (Zrt- and Irt-like protein 12) or LZT-Hs8 (LIV-1 subfamily of ZIP zinc transporter 8), is a 691 amino acid multi-pass membrane protein that belongs to the LIV-1 subfamily of the ZIP family (or SLC39 family) of metal transporters. In humans, there are at least fifteen members of the ZIP family, all of which exhibit unique tissue-specific expression and are involved in zinc transport and metabolism. Members of the LIV-1 subfamily share similarity with the estrogen-regulated protein LIV-1 and contain a distinct motif with conserved glutamic acid and proline residues. Expressed in brain and eye tissues, SLC39A12 is believed to function as a zinc transporter, facilitating zinc influx into the cytosol. In addition, SLC39A12 may play a role in the onset of schizophrenia. Due to alternative splicing events, four SLC39A12 isoforms are produced.

REFERENCES

CHROMOSOMAL LOCATION

SOURCE
SLC39A12 (O-17) is a purified rabbit polyclonal antibody raised against SLC39A12 of human origin.

PRODUCT
Each vial contains 50µg IgG in 500μl PBS with <0.1% sodium azide, 0.1% gelatin and 0.02% sucrose.

APPLICATIONS
SLC39A12 (O-17) is recommended for detection of SLC39A12 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2µg per 100-500µg of total protein (1ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SLC39A12 siRNA (h): sc-90521, SLC39A12 shRNA Plasmid (h): sc-90521-SH and SLC39A12 shRNA (h) Lentiviral Particles: sc-90521-V.

Molecular Weight of SLC39A12: 77kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2035 (0.5 ml agarose/2.0 ml).

DATA

RESEARCH USE
For research use only, not for use in diagnostic procedures.