

Anti-COPT2(copper transporter 2) Polyclonal Antibody

Cat. #: 60B203

Description:

The COPT2(copper transporter 2) is involved in low-affinity copper uptake. COPT2 is a multi-pass membrane protein and belongs to the SLC31A transporter family.

The redox active metal copper is an essential cofactor in critical biological processes such as respiration, iron transport, oxidative stress protection, hormone production, and pigmentation. A widely conserved family of high-affinity copper transport proteins (Ctr proteins) mediates copper uptake at the plasma membrane. A series of clustered methionine residues in the hydrophilic extracellular domain, and an MXXXM motif in the second transmembrane domain, are important for copper uptake. These methionine probably coordinate copper during the process of metal transport

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human COPT2(copper transporter 2)

References

Zhou, B. et al, Proc. Natl. Acad. Sci. U.S.A. 94 (14), 7481-7486 (1997)
Nishihara, E., et al, Neuroreport 9 (14), 3259-3263 (1998)

Clone Number:

Isotype:

Species: human, mouse

Storage and Stability: at -20°C

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1 µg/ml for 2hrs)