

Copper-Transporting ATPase2 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56517 (clone S62-29)
Size: 100ug in PBS (1mg/ml), pH 7.4,
50% glycerol, 0.09% sodium azide.
Purified by Protein G affinity
chromatography.

BACKGROUND

The copper efflux transporters ATP7A and ATP7B sequester intracellular copper into the vesicular secretory pathway for export from cells. ATP7b (also known as Copper-Transporting ATPase2) transports copper in and out of cells using ATP. There are 3 known isoforms of the ATP7b gene: A is found in the liver, kidney and brain, the shorter form B is found in brain, and the third isoform, known as WND/140KDA is found in mitochondria. Mutations in the ATP7b gene can cause Wilson's disease, an inherited disorder causing copper poisoning in the brain and liver.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to aa 3-21 (cytoplasmic N-terminus) of human Copper-Transporting ATPase2. (accession no. NP_000044.2).

Host Species: Mouse

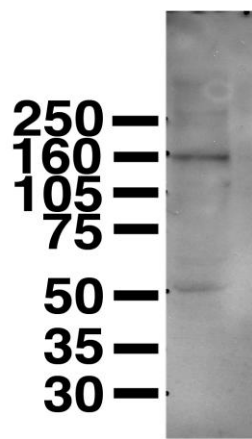
Antibody Class: IgG1

SPECIFICITY

This antibody recognizes human, mouse, and rat Copper-Transporting ATPase2.

APPLICATIONS

Immunoblotting: use at 1-2ug/ml. A band of ~160kDa is detected.



Immunoblot on rat brain membranes.

Immunohistochemistry: use at 1-5ug/ml. These are recommended concentrations. Enduser should determine optimal concentrations for their applications.
Positive control: rat brain membranes.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This product is stable for at least 1 year at -20°C. Freeze in multiple aliquots to avoid repeated freeze-thaw cycles.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.