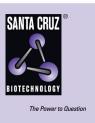
## SANTA CRUZ BIOTECHNOLOGY, INC.

# HAH1 (A-15): sc-33477



### BACKGROUND

Delivery of copper to a specific P-type ATPase in the Golgi apparatus (Ccc2 in yeast, ATP7A and ATP7B in humans) is an important step in copper homeostasis that is accomplished by a small copper chaperone protein. HAH1 (also designated ATOX1), a metal transport protein that belongs to the ATX1 family, is involved in cellular antioxidant defense and can bind and deliver cytosolic copper to the copper ATPase proteins. Both HAH1 (the human homolog of Atx1) and Atx1 preferentially interact with domains 2 and 4 of ATP7B. Atx1 also interacts with both Ccc2 domains.

#### REFERENCES

- 1. Klomp, L.W., et al. 1997. Identification and functional expression of HAH1, a novel human gene involved in copper homeostasis. J. Biol. Chem. 272: 9221-9226.
- 2. Harrison, M.D., et al. 2000. Intracellular copper routing: the role of copper chaperones. Trends. Biochem. Sci. 25: 29-32.
- Boultwood, J., et al. 2000. Physical mapping of the human ATX1 homologue (HAH1) to the critical region of the 5q- syndrome within 5q32, and immediately adjacent to the SPARC gene. Hum. Genet. 106: 127-129.

#### CHROMOSOMAL LOCATION

Genetic locus: ATOX1 (human) mapping to 5q33.1; Atox1 (mouse) mapping to 11 B1.3.

#### SOURCE

HAH1 (A-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of HAH1 of human origin.

#### PRODUCT

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-33477 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### APPLICATIONS

HAH1 (A-15) is recommended for detection of HAH1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HAH1 (A-15) is also recommended for detection of HAH1 in additional species, including canine.

Suitable for use as control antibody for HAH1 siRNA (h): sc-45252, HAH1 siRNA (m): sc-45253, HAH1 shRNA Plasmid (h): sc-45252-SH, HAH1 shRNA Plasmid (m): sc-45253-SH, HAH1 shRNA (h) Lentiviral Particles: sc-45252-V and HAH1 shRNA (m) Lentiviral Particles: sc-45253-V.

Molecular Weight of HAH1: 8 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## **RESEARCH USE**

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

#### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

# MONOS Satisfation Guaranteed

Try **HAH1 (D-9): sc-398742** or **HAH1 (22-B): sc-100557**, our highly recommended monoclonal alternatives to HAH1 (A-15).