BACKGROUND

Amiloride-binding protein 1, amine oxidase, copper-containing (ABP1), also known as diamine oxidase (DAO), is a member of the copper/topaquinone oxidase family. The human homolog is known as kidney amine oxidase (KAO), DAO or ABP1. Notable compounds degraded by ABP1 include putrescine, histamine, spermine and spermidine, as well as substances involved in allergic and immune responses, cell proliferation, tissue differentiation, tumor formation, and possibly apoptosis. The secreted ABP1 protein can be detected in the extracellular space of placenta and kidney. Placental ABP1 is thought to play a role in the regulation of female reproductive function.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: AOCC1 (human) mapping to 7q36.1; Aoc1 (mouse) mapping to 6 B2.3.

SOURCE

ABP1 (G-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 267-290 within an internal region of ABP1 of mouse origin.

STORAGE

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

PRODUCT

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ABP1 (G-11) is recommended for detection of ABP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

Suitable for use as control antibody for ABP1 siRNA (h): sc-62519, Abp1 siRNA (m): sc-62520, ABP1 shRNA Plasmid (h): sc-62519-SH, Abp1 shRNA Plasmid (m): sc-62520-SH, ABP1 shRNA (h) Lentiviral Particles: sc-62519-V and Abp1 shRNA (m) Lentiviral Particles: sc-62520-V.

Molecular Weight of ABP1 monomer: 92 kDa.
Molecular Weight of ABP1 dimer: 180 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA

RESEARCH USE

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

PROTOCOLS

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