hepatic OAT (D-10): sc-376050

**BACKGROUND**

OAT (ornithine aminotransferase) is a 439 amino acid protein encoded by the human gene OAT. OAT belongs to the class III pyridoxal-phosphate-dependent aminotransferase family and is usually found as a homotrimer in the mitochondrial matrix. OAT catalyzes the major catalytic reaction for ornithine. Ornithinemia, presumably due to deficiency of ornithine ketoacid aminotransferase (OAT) has been found in patients with gyrate atrophy of the choroid and retina. The clinical history of gyrate atrophy is usually night blindness that begins in late childhood, accompanied by sharply demarcated circular areas of chorioretinal atrophy. During the second and third decades the areas of atrophy enlarge. The renal form is found in patients with gyrate atrophy of the choroid and retina due to ornithine aminotransferase deficiency. Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Markers: sc-2035, UltraCruz® Hard-set Mounting Medium: sc-359850.

**APPLICATIONS**

hepatic OAT (D-10) is recommended for detection of hepatic OAT 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 1:30-1:3000).

Suitable for use as control antibody for OAT siRNA (h): sc-62709, OAT siRNA (m): sc-62710, OAT shRNA Plasmid (h): sc-62709-SH, OAT shRNA Plasmid (m): sc-62710-SH, OAT shRNA (h) Lentiviral Particles: sc-62709-V and OAT shRNA (m) Lentiviral Particles: sc-62710-V.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: OAT (human) mapping to 10q26.13; Oat (mouse) mapping to 7 F3.

**SOURCE**

hepatic OAT (D-10) is a mouse monoclonal antibody raised against amino acids 101-230 mapping within an internal region of OAT of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**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. Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.