

Basic Information

Product Name	Anti-DAO Antibody
Gene Name	DAO
Source	Rabbit
Isotype	IgG
Species Reactivity	human, rat
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived human DAO recombinant protein (Position: H20-L347).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	39KD
Dilution Ratios	Western blot(WB):1:500-2000 (ELISA): 1:100-1000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

D-amino acid oxidase (DAAO; also OXDA, DAMOX) is an enzyme with the function on a molecular level to oxidize D-amino acids to the corresponding α -keto acids, producing ammonia and hydrogen peroxide. This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. Its biological function is not known; it may act as a detoxifying agent which removes D-amino acids that accumulate during aging. In mice, it degrades D-serine, a co-agonist of the NMDA receptor. This gene may play a role in the pathophysiology of schizophrenia.

Selected Validation Data

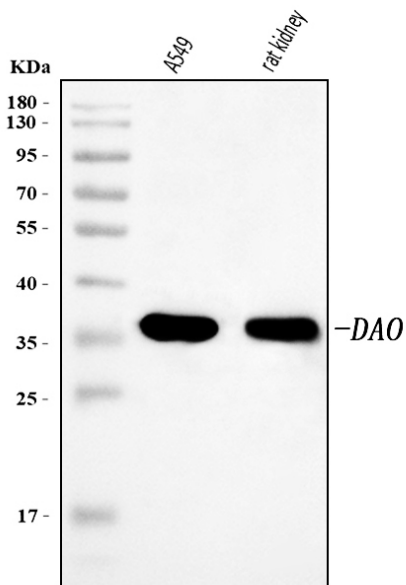


Figure 1. Western blot analysis of anti- DAO antibody (A00773-4). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: A549 whole cell lysates,

Lane 2: rat kidney tissue lysates.

Use rabbit anti- DAO 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for DAO at approximately 36KD. The expected band size for DAO is at 39KD.