

## Basic Information

<b>Product Name</b>	Anti-DAO Antibody
<b>Gene Name</b>	DAO
<b>Source</b>	Rabbit
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human, mouse
<b>Tested Application</b>	WB, FCM, ELISA
<b>Contents</b>	500 ug/ml antibody with PBS , 0.02% NaN <sub>3</sub> , 1 mg BSA and 50% glycerol.
<b>Immunogen</b>	E.coli-derived human DAO recombinant protein (Position: C18-K338).
<b>concentration</b>	500 ug/ml
<b>Purification</b>	Immunogen affinity purified.
<b>Observed MW</b>	39KD
<b>Dilution Ratios</b>	Western blot(WB): 1:500-2000 Flow cytometry (FCM):1-3μg/1x10 <sup>6</sup> cells 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

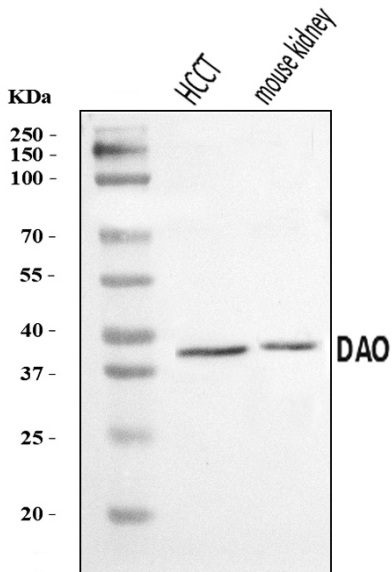


Figure 1. Western blot analysis of anti- DAO Antibody (A00773-3).The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: HCCT tissue lysates,

Lane 2: mouse 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 39KD. The expected band size for DAO is at 39KD.