

Datasheet for ABIN7600546

**anti-D Amino Acid Oxidase antibody (AA 20-347)**[Go to Product page](#)

## Overview

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|----------------------|-----------------------------------------------------|
| Quantity:            | 100 µg                                              |
| Target:              | D Amino Acid Oxidase (DAO)                          |
| Binding Specificity: | AA 20-347                                           |
| Reactivity:          | Human, Rat                                          |
| Host:                | Rabbit                                              |
| Clonality:           | Polyclonal                                          |
| Conjugate:           | This D Amino Acid Oxidase antibody is un-conjugated |
| Application:         | Western Blotting (WB), ELISA, Flow Cytometry (FACS) |

## Product Details

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| Purpose:                    | Anti-DAO Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen:                  | E.coli-derived human DAO recombinant protein (Position: H20-L347).                                                                                                                                                                                                                                                                                                                                                   |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                             |
| Characteristics:            | Anti-DAO Antibody Picoband® (ABIN7600546). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                         |

## Target Details

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| Target:           | D Amino Acid Oxidase (DAO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Alternative Name: | DAO ( <a href="#">DAO Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Background:       | <p>Synonyms: RNA-binding protein FUS, 75 kDa DNA-pairing protein, Oncogene FUS, Oncogene TLS, POMp75, Translocated in liposarcoma protein, FUS, TLS,</p> <p>Tissue Specificity: Ubiquitous.</p> <p>Background: 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 <math>\alpha</math>-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.</p> |
| Molecular Weight: | 36 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Gene ID:          | 1610                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| UniProt:          | <a href="#">P14920</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Application Details

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| Application Notes: | <p>Western blot, 0.25-0.5 <math>\mu</math>g/mL, Human, Rat</p> <p>Flow Cytometry (Fixed), 1-3 <math>\mu</math>g/1x10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 <math>\mu</math>g/mL, -</p> <p>1. Barker, R. F., Hopkinson, D. A. The genetic and biochemical properties of the D-amino acid oxidases in human tissues. Ann. Hum. Genet. 41: 27-42, 1977. 2. Chumakov, I., Blumenfeld, M., Guerassimenko, O., Cavarec, L., Palicio, M., Abderrahim, H., Bougueleret, L., Barry, C., Tanaka, H., La Rosa, P., Puech, A., Tahri, N., and 51 others. Genetic and physiological data implicating the new human gene G72 and the gene for D-amino acid oxidase in schizophrenia. Proc. Nat. Acad. Sci. 99: 13675-13680, 2002. Note: Erratum: Proc. Nat. Acad. Sci. 99: 17221 only, 2002. 3. de Belleruche, J., Morris, A. Reply to Millicamps et al.: elucidating the role of D amino oxidase in familial amyotrophic sclerosis. Proc. Nat. Acad. Sci. 107: E108, 2010. Note: Electronic Article.</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Handling

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| Format:          | Lyophilized                                                                                                                                                                                          |
| Reconstitution:  | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.                                                                                                                            |
| Concentration:   | 500 µg/mL                                                                                                                                                                                            |
| Buffer:          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                            |
| Storage:         | 4 °C, -20 °C                                                                                                                                                                                         |
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |