



## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB11100 - Goat Anti-D-amino-acid oxidase (aa286-298) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** DAAO, D-amino-acid oxidase, DAMOX, MGC35381, OXDA, DAO

**Official Symbol:** DAO

**Accession Number(s):** NP\_001908.3

**Human GeneID(s):** [1610](#)

### Immunogen

Peptide with sequence C-RPQIRLEREQLRT, from the internal region of the protein sequence according to NP\_001908.3.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:16000.

**Western blot:** Approx 37kDa band observed in Human Brain (Cerebellum) lysates (calculated MW of 39.5kDa according to NP\_001908.3). Recommended concentration: 0.03-0.01µg/ml. Primary incubation was 1 hour.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Dog, Pig, Cow

### Specific References

**This antibody has been successfully used in WB:**

Marcello Serra, Anna Di Maio, Valentina Bassareo, Tommaso Nuzzo, Francesco Errico, Federica Servillo, Mario Capasso, Pathik Parekh, Qin Li, Marie-Laure Thiolat, Erwan Bezard, Paolo Calabresi, David Sulzer, Manolo Carta, Micaela Morelli, Alessandro Usiello

Perturbation of serine enantiomers homeostasis in the striatum of MPTP-lesioned monkeys and mice reflects the extent of dopaminergic midbrain degeneration.

Neurobiol Dis. 2023 Aug;184:106226.

PMID: 37451474

**This antibody has been successfully used in WB on Human:**

Anna Di Maio et al.

Homeostasis of serine enantiomers is disrupted in the post-mortem caudate putamen and cerebrospinal fluid of living Parkinson's disease patients.

Neurobiol Dis. 2023 Aug;184:106203.

PMID: 37336364

**This antibody has been successfully used in WB on Macaques:**

Nuzzo T, Punzo D, Devoto P, Rosini E, Paciotti S, Sacchi S, Li Q, Thiolat ML, Véga C, Carella M, Carta M, Gardoni F, Calabresi P, Pollegioni L, Bezard E, Parnetti L, Errico F, Usiello A

The levels of the NMDA receptor co-agonist D-serine are reduced in the substantia nigra of Mptlesioned macaques and in the cerebrospinal fluid of Parkinson's disease patients  
Sci Rep. 2019 Jun 20;9(1):8898.

PMID: 31222058

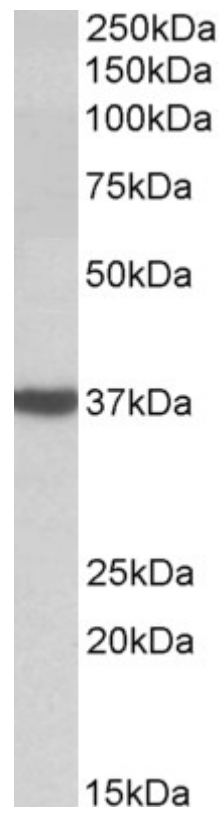
**This antibody has been successfully used in WB and IF on Mouse:**

Sasabe J, Miyoshi Y, Rakoff-Nahoum S, Zhang T, Mita M, Davis BM, Hamase K, Waldor MK

Interplay between microbial D-amino acids and host D-amino acid oxidase modifies murine mucosal defence and gut microbiota

Nat Microbiol. 2016 Jul 25;1(10):16125

PMID: 27670111



EB11100 (0.03µg/ml) staining of Human Cerebellum lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.