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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

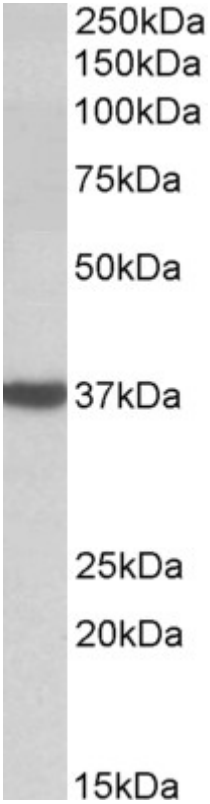
This antibody has been successfully used in WB on Human:
Anna Di Maio et al.
Homeostasis of serine enantiomers is disrupted in the post-mortem caudate putamen and cerebrospinal fluid of living Parkinson's disease patients.
Neurobiol Dis. 2023 Aug:184:106203.
PMID: 37336364

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 Mptplesioned 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.