

## Product datasheet for R1056PS

### DAO Sheep Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/5,000. <b>Immunoprecipitation:</b> 1/100. <b>ELISA:</b> 1/5,000-1/20,000. This product has been assayed against 1.0 µg of D-amino-acid oxidase [pig kidney] in a standard sandwich ELISA using peroxidase conjugated affinity purified anti-sheep IgG [H&L] (goat) and ABTS as a substrate for 30 minutes at room temperature. A working dilution of 1/20,000 to 1:60,000 of the reconstitution concentration is suggested.
Reactivity:	Porcine
Host:	Sheep
Clonality:	Polyclonal
Immunogen:	D-amino-acid oxidase from porcine kidney
Specificity:	This antibody detects porcine D-amino-acid oxidase. Immunoelectrophoresis give a single precipitin arc against anti-sheep serum as well as purified and partially purified D-amino-acid oxidase [pig kidney].
Formulation:	0.02 M Potassium phosphate, 0.15 M Sodium chloride, pH 7.2 State: Purified State: Lyophilized purified Ig fraction Preservative: 0.01% Sodium azide
Reconstitution Method:	Restore with 0.1 ml of deionized water (or equivalent).
Concentration:	lot specific
Purification:	Multi-step process including delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Database Link:** [P00371](#)

**Background:** The DAO 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 has been suggested that it is involved in acid base balance in the kidney or it could act as a detoxifying agent which removes D-amino acids accumulated during aging, or it may be a fossil enzyme without a current function.

**Synonyms:** DAO, DAMOX, DAAO, OXDA, DAO1