# LOX Antibody / Lysyl Oxidase (R32045)

| Catalog No. | Formulation | Size |
|---|---|---|
| R32045 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

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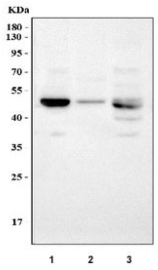
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide |
| **UniProt** | P28300 |
| **Applications** | Western Blot : 0.1-0.5ug/ml<br>ELISA : 0.1-0.5ug/ml (human protein tested); request BSA-free format for coating |
| **Limitations** | This LOX antibody is available for research use only. |




Western blot testing of 1) rat liver, 2) rat lung and 3) mouse liver tissue lysate with LOX antibody. Expected molecular weight: ~47 kDa (unprocessed/unmodified), ~50 kDa (glycosylated), ~32 kDa (processed form).

## Description

Lysyl oxidase, also known as protein-lysine 6-oxidase, is a protein that, in humans, is encoded by the LOX gene. The protein encoded by this gene is an extracellular copper enzyme that initiates the crosslinking of collagens and elastin. The enzyme catalyzes oxidative deamination of the epsilon-amino group in certain lysine and hydroxylysine residues of collagens and lysine residues of elastin. In addition to crosslinking extracellular matrix proteins, the encoded protein may have a role in tumor suppression. Defects in this gene are a cause of autosomal recessive cutis laxa type I (CL type I). Two transcript variants encoding different isoforms have been found for this gene.

## Application Notes

Optimal dilution of the LOX antibody should be determined by the researcher.

## Immunogen

Amino acids AEENCLASTAYRADVRDYDHRVLLRFPQR of human Lysyl Oxidase were used as the immunogen for the LOX antibody.

## Storage

After reconstitution, the LOX antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (1)