

## DESCRIPTION

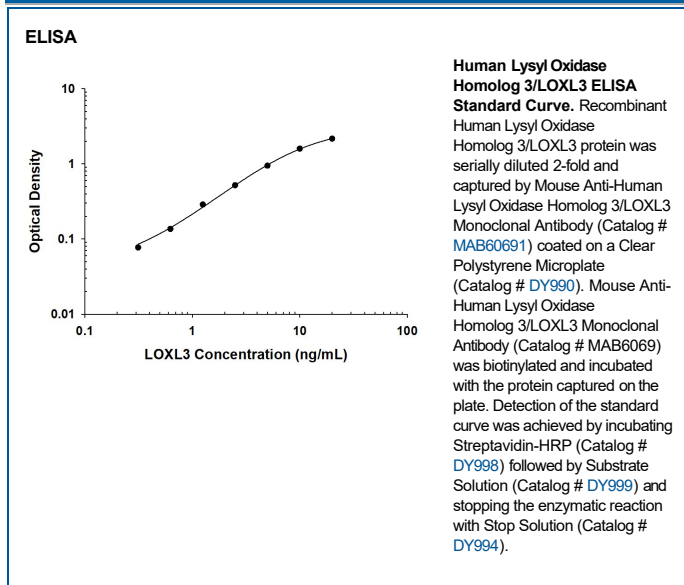
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Specificity</b>        | Detects human Lysyl Oxidase Homolog 3/LOXL3 protein in direct ELISAs.   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 1013328  |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | Chinese Hamster Ovary cell line CHO-derived human Lysyl Oxidase Homolog 3/LOXL3 protein<br>Met1-Ile753<br>Accession # P58215  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

|              |   |
|--------------|---|
| <b>ELISA</b> | This antibody functions as an ELISA detection antibody when paired with Mouse Anti-Human Lysyl Oxidase Homolog 3/LOXL3 Monoclonal Antibody (Catalog # <a href="#">MAB60691</a> ).<br><br><i>This product is intended for assay development on various assay platforms requiring antibody pairs.</i> |
|--------------|---|

## DATA



## PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Reconstitute at 0.5 mg/mL in sterile PBS.  |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

## BACKGROUND

Lysyl oxidase-like protein 3 (LOXL3) is a secreted copper amine oxidase. The N-terminal region of LOXL3 contains four scavenger receptor cysteine-rich (SRCR) domains. The C-terminal region consists of a catalytic domain similar to other lysyl oxidases and a cytokine receptor-like domain (1). The catalytic domain contains conserved residues required for copper binding and formation of a lysyl tyrosylquinone cofactor (2). LOXL3 is expressed primarily in epidermis, kidney, aorta, and chondrocytes (3). The enzyme is expressed at low levels in most other tissues. Like lysyl oxidase, LOXL3 oxidizes the lysine  $\epsilon$ -amino groups of a number of collagen substrates, and is also active against other primary amines (4). However, LOXL3 does not require proteolytic processing to be activated.

## References:

1. Csiszar, K. (2001) *Prog. Nucl. Acid Res. Mol. Biol.* **70**:1.
2. Maki, J.M. and K.I. Kivirikko (2001) *Biochem J.* **355**:381.
3. Molnar, J. *et al.* (2003) *Biochim. Biophys. Acta* **1647**:220.
4. Lee, J. and Y. Kim (2006) *J. Biol. Chem.* **281**:37282.