

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Conjugate</b>          | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

**ELISA** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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 ε-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.

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