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Datasheet for ABIN2712316

## LOX Protein (Myc-DYKDDDDK Tag)

1 Image

12 Publications

### Overview

Quantity:	20 µg
Target:	LOX
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LOX protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)

### Product Details

Characteristics:	<ul style="list-style-type: none"><li>• Recombinant human Lysyl oxidase protein expressed in HEK293 cells.</li><li>• Produced with end-sequenced ORF clone</li></ul>
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

### Target Details

Target:	LOX
Alternative Name:	Lysyl Oxidase ( <a href="#">LOX Products</a> )
Background:	Responsible for the post-translational oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. In addition to cross-linking of extracellular matrix proteins, may have a direct role in tumor suppression. [UniProtKB/Swiss-Prot Function]
Molecular Weight:	46.8 kDa

## Target Details

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NCBI Accession: [NP\\_002308](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

## Application Details

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Application Notes: Recombinant human proteins can be used for:  
Native antigens for optimized antibody production  
Positive controls in ELISA and other antibody assays

Comment: The tag is located at the C-terminal.

Restrictions: For Research Use only

## Handling

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Concentration: 50 µg/mL

Buffer: 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.

Storage: -80 °C

Storage Comment: Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

## Publications

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Product cited in: Pilecki, Holm, Schlosser, Moeller, Wohl, Zuk, Heumüller, Wallis, Moestrup, Sengle, Holmskov, Sorensen: "Characterization of Microfibrillar-associated Protein 4 (MFAP4) as a Tropoelastin- and Fibrillin-binding Protein Involved in Elastic Fiber Formation." in: **The Journal of biological chemistry**, Vol. 291, Issue 3, pp. 1103-14, (2016) ([PubMed](#)).

Kondala, Puri, Banka, Sachdeva, Sakhuja: "Short-term prognosis of potential celiac disease in Indian patients." in: **United European gastroenterology journal**, Vol. 4, Issue 2, pp. 275-80, (2016) ([PubMed](#)).

Cox, Rumney, Schoof, Perryman, Høye, Agrawal, Bird, Latif, Forrest, Evans, Huggins, Lang, Linding, Gartland, Erler: "The hypoxic cancer secretome induces pre-metastatic bone lesions through lysyl oxidase." in: **Nature**, Vol. 522, Issue 7554, pp. 106-10, (2015) ([PubMed](#)).

Miller, Morton, Pinese, Saturno, Jamieson, McGhee, Timpson, Leach, McGarry, Shanks, Bailey,

## Publications

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Chang, Oien, Karim, Au, Steele, Carter, McKay, Anderson, Evans, Marais, Springer, Biankin, Eler, Sansom: "Targeting the LOX/hypoxia axis reverses many of the features that make pancreatic cancer deadly: inhibition of LOX abrogates metastasis and enhances drug efficacy." in: **EMBO molecular medicine**, Vol. 7, Issue 8, pp. 1063-76, (2015) ([PubMed](#)).

Richter, Dayaram, Gilmartin, Ganji, Pemmasani, Van Der Key, Shohet, Donehower, Kumar: "WIP1 phosphatase as a potential therapeutic target in neuroblastoma." in: **PLoS ONE**, Vol. 10, Issue 2, pp. e0115635, (2015) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

## Images

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### Western Blotting

**Image 1.** Validation with Western Blot