

## ARG81568 Human LOXL2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

| Cat. No.     | Component Name                        | Package              | Temp  |
|--------------|---------------------------------------|----------------------|---|
| ARG81568-001 | Antibody-coated microplate            | 8 X 12 strips        | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81568-002 | Standard                              | 2 X 10 ng/vial       | 4°C   |
| ARG81568-003 | Standard/Sample diluent               | 30 ml (Ready to use) | 4°C   |
| ARG81568-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl)      | 4°C   |
| ARG81568-005 | Antibody diluent buffer               | 12 ml (Ready to use) | 4°C   |
| ARG81568-006 | HRP-Streptavidin concentrate (100X)   | 1 vial (100 µl)      | 4°C   |
| ARG81568-007 | HRP-Streptavidin diluent buffer       | 12 ml (Ready to use) | 4°C   |
| ARG81568-008 | 25X Wash buffer                       | 20 ml                | 4°C   |
| ARG81568-009 | TMB substrate                         | 10 ml (Ready to use) | 4°C (Protect from light)  |
| ARG81568-010 | STOP solution                         | 10 ml (Ready to use) | 4°C   |
| ARG81568-011 | Plate sealer                          | 4 strips             | Room temperature  |

### Summary

|                     |   |
|---------------------|---|
| Product Description | ARG81568 Human LOXL2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human LOXL2 in serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Tested Reactivity   | Hu  |
| Tested Application  | ELISA   |
| Specificity         | There is no detectable cross-reactivity with other relevant proteins.   |
| Target Name         | LOXL2   |
| Conjugation         | HRP   |
| Conjugation Note    | Substrate: TMB and read at 450 nm.  |
| Sensitivity         | 78 pg/ml  |
| Sample Type         | Serum, plasma (heparin, EDTA) and cell culture supernatants.  |
| Standard Range      | 156 - 10000 pg/ml   |
| Sample Volume       | 100 µl  |

|                 |   |
|-----------------|---|
| Precision       | Intra-Assay CV: 6.4%<br>Inter-Assay CV: 7.0%  |
| Alternate Names | Lysyl oxidase-related protein 2; Lysyl oxidase-related protein WS9-14; LOR2; Lysyl oxidase-like protein 2; Lysyl oxidase homolog 2; EC 1.4.3.13; WS9-14 |

## Application Instructions

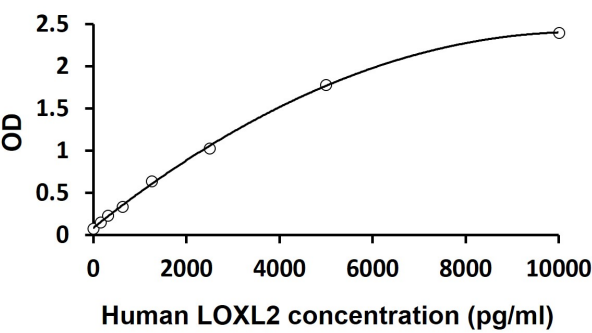
|            |           |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

## Properties

|                     |  |
|---------------------|--|
| Form                | 96 well  |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

|                |   |
|----------------|---|
| Gene Symbol    | LOXL2   |
| Gene Full Name | lysyl oxidase-like 2  |
| Background     | This gene encodes a member of the lysyl oxidase gene family. The prototypic member of the family is essential to the biogenesis of connective tissue, encoding an extracellular copper-dependent amine oxidase that catalyses the first step in the formation of crosslinks in collagens and elastin. A highly conserved amino acid sequence at the C-terminus end appears to be sufficient for amine oxidase activity, suggesting that each family member may retain this function. The N-terminus is poorly conserved and may impart additional roles in developmental regulation, senescence, tumor suppression, cell growth control, and chemotaxis to each member of the family. [provided by RefSeq, Jul 2008]  |
| Function       | Mediates the post-translational oxidative deamination of lysine residues on target proteins leading to the formation of deaminated lysine (allysine). When secreted in extracellular matrix, promotes cross-linking of extracellular matrix proteins by mediating oxidative deamination of peptidyl lysine residues in precursors to fibrous collagen and elastin. Acts as a regulator of sprouting angiogenesis, probably via collagen IV scaffolding. When nuclear, acts as a transcription corepressor and specifically mediates deamination of trimethylated 'Lys-4' of histone H3 (H3K4me3), a specific tag for epigenetic transcriptional activation. Involved in epithelial to mesenchymal transition (EMT) via interaction with SNAI1 and participates in repression of E-cadherin, probably by mediating deamination of histone H3. Also involved in E-cadherin repression following hypoxia, a hallmark of epithelial to mesenchymal transition believed to amplify tumor aggressiveness, suggesting that it may play a role in tumor progression. Acts as a regulator of chondrocyte differentiation, probably by regulating expression of factors that control chondrocyte differentiation. [UniProt] |
| Highlight      | Related products:<br><a href="#">LOXL2 antibodies</a> ; <a href="#">LOXL2 ELISA Kits</a> ;<br>New ELISA data calculation tool:<br><a href="#">Simplify the ELISA analysis by GainData</a>   |
| PTM            | The lysine tyrosylquinone cross-link (LTQ) is generated by condensation of the epsilon-amino group of a lysine with a topaquinone produced by oxidation of tyrosine.<br><br>N-glycosylated. N-glycosylation on Asn-455 and Asn-644 may be essential for proper folding and secretion; may be composed of a fucosylated carbohydrates attached to a trimannose N-linked glycan core. [UniProt]   |



ARG81568 Human LOXL2 ELISA Kit standard curve image

ARG81568 Human LOXL2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.