

# Porcine Xanthine dehydrogenase/oxidase [Includes: Xanthine dehydrogenase (XDH) ELISA Kit | XDH elisa kit

Porcine Xanthine dehydrogenase/oxidase [Includes: Xanthine dehydrogenase (XDH) ELISA Kit

|                               |                              |
|-------------------------------|------------------------------|
| CATALOG #<br><b>AAA244987</b> | REACTIVITY<br><b>Porcine</b> |
|-------------------------------|------------------------------|

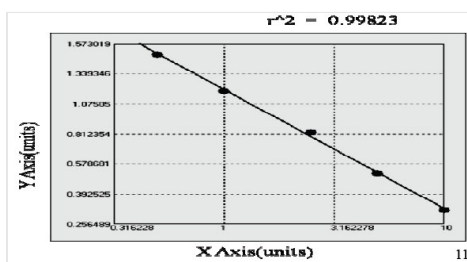
## PRODUCT SYNONYMS

Xanthine dehydrogenase/oxidase [Includes: Xanthine dehydrogenase (XDH); Porcine Xanthine dehydrogenase/oxidase [Includes: Xanthine dehydrogenase (XDH) ELISA Kit; XDH elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Porcine                                                                                                                                                                                |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                             |
| Assay Type              | Competitive                                                                                                                                                                            |
| Sensitivity             | 0.1 ng/mL.                                                                                                                                                                             |
| Intended Uses           | This XDH ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Porcine XDH. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                    |

## IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

### Related Product Information for XDH elisa kit

**Principle of the assay:** XDH ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-XDH antibody and an XDH-HRP conjugate. The assay sample and buffer are incubated together with XDH-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the XDH concentration since XDH from samples and XDH-HRP conjugate compete for the anti-XDH antibody binding site. Since the number of sites is limited, as more sites are occupied by XDH from the sample, fewer sites are left to bind XDH-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The XDH concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| NCBI GI #                        | 91823271                                                |
| NCBI GeneID                      | 7498                                                    |
| NCBI Accession #                 | NP_000370.2                                             |
| NCBI GenBank Nucleotide #        | NM_000379.3                                             |
| Molecular Weight                 | 146,424 Da                                              |
| NCBI Official Full Name          | xanthine dehydrogenase/oxidase                          |
| NCBI Official Synonym Full Names | xanthine dehydrogenase                                  |
| NCBI Official Symbol             | XDH                                                     |
| NCBI Official Synonym Symbols    | XO; XOR                                                 |
| NCBI Protein Information         | xanthine dehydrogenase/oxidase; xanthine oxidoreductase |
| UniProt Protein Name             | Xanthine dehydrogenase/oxidase                          |
| UniProt Gene Name                | <b>XDH</b>                                              |
| UniProt Synonym Gene Names       | XDHA; XD; XO; XOR                                       |
| UniProt Entry Name               | XDH_HUMAN                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/porcine-elisa-kits/xanthine-dehydrogenase-oxidase-includes-xanthine-dehydrogenase-xdh/244987>