

## **Anti-Xanthine Oxidase Picoband Antibody**

**Catalog # ABO12966** 

## **Specification**

# **Anti-Xanthine Oxidase Picoband Antibody - Product Information**

Application WB, IHC-P
Primary Accession P47989
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

**Description** 

Rabbit IgG polyclonal antibody for Xanthine dehydrogenase/oxidase(XDH) detection. Tested with WB, IHC-P in Human; Mouse; Rat.

#### Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

## **Anti-Xanthine Oxidase Picoband Antibody - Additional Information**

**Gene ID 7498** 

#### **Other Names**

Xanthine dehydrogenase/oxidase, Xanthine dehydrogenase, XD, 1.17.1.4, Xanthine oxidase, XO, 1.17.3.2, Xanthine oxidoreductase, XOR, XDH, XDHA

## Calculated MW 146424 MW KDa

### **Application Details**

### **Subcellular Localization**

Cytoplasm . Peroxisome . Secreted.

### **Tissue Specificity**

Detected in milk (at protein level). .

#### **Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

#### **Immunogen**

E. coli-derived human Xanthine Oxidase recombinant protein (Position: T2-K343). Human Xanthine Oxidase shares 86.8% and 89.2% amino acid (aa) sequence identity with mouse and rat Xanthine Oxidase, respectively.

#### **Purification**

Immunogen affinity purified.





**Cross Reactivity** 

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

# **Anti-Xanthine Oxidase Picoband Antibody - Protein Information**

Name XDH

Synonyms XDHA

#### **Function**

Key enzyme in purine degradation. Catalyzes the oxidation of hypoxanthine to xanthine. Catalyzes the oxidation of xanthine to uric acid. Contributes to the generation of reactive oxygen species. Has also low oxidase activity towards aldehydes (in vitro).

**Cellular Location** 

Cytoplasm. Peroxisome. Secreted

**Tissue Location** 

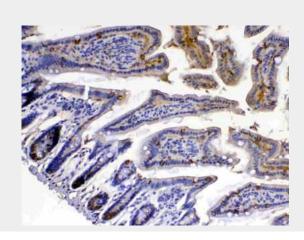
Detected in milk (at protein level). {ECO:0000269|Ref.12}

# **Anti-Xanthine Oxidase Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

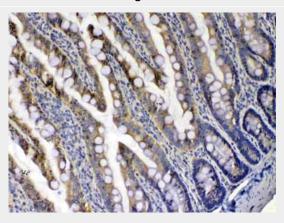
### **Anti-Xanthine Oxidase Picoband Antibody - Images**

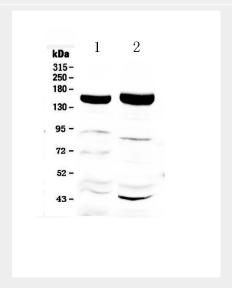




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Figure 2. IHC analysis of Xanthine Oxidase using anti-Xanthine Oxidase antibody (ABO12966).





# Anti-Xanthine Oxidase Picoband Antibody - Background

Xanthine dehydrogenase, also known as XDH, is a protein that, in humans, is encoded by the XDH gene. Xanthine dehydrogenase belongs to the group of molybdenum-containing hydroxylases involved in the oxidative metabolism of purines. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Xanthine dehydrogenase can be converted to xanthine oxidase by reversible sulfhydryl oxidation or by irreversible proteolytic modification. Defects in xanthine dehydrogenase cause xanthinuria, may contribute to adult respiratory stress syndrome, and may potentiate influenza infection through an oxygen metabolite-dependent mechanism.