

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
Format	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

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, Human, By Heat
 Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human,

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 reconstitution, 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](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

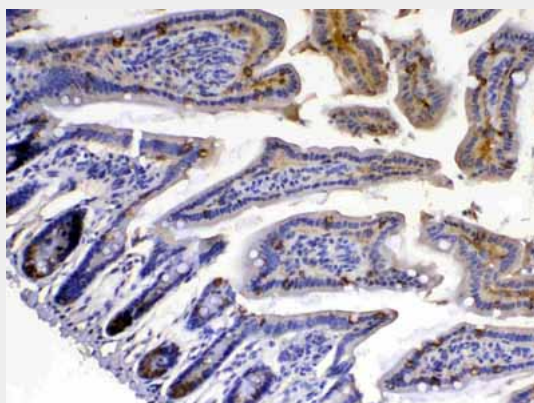
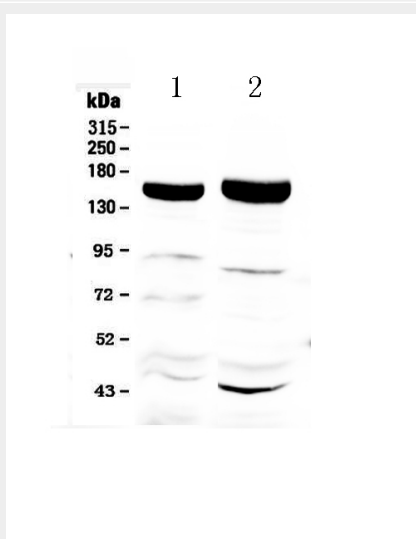
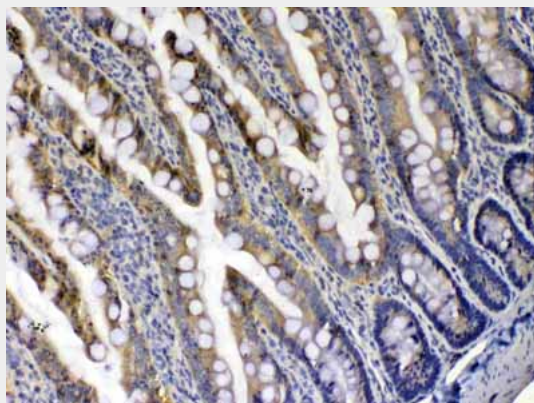
Anti-Xanthine Oxidase Picoband Antibody - Images

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.