

Anti-Xanthine Oxidase Picoband Antibody

Catalog # ABO12966

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.

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
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). .
Source	Eukaryota
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

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}

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.

Images

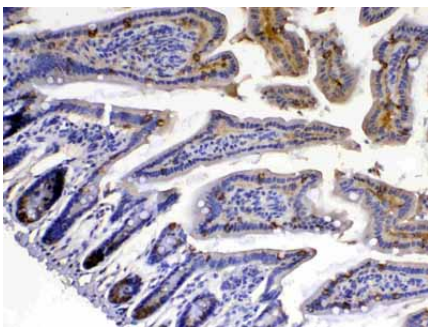
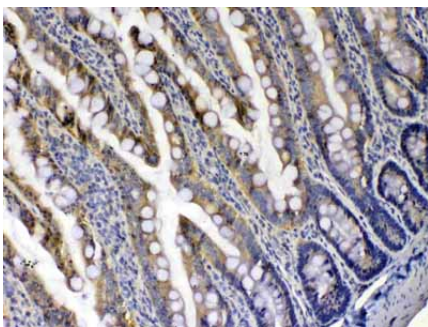
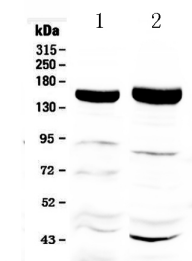


Figure 2. IHC analysis of Xanthine Oxidase using anti-Xanthine Oxidase antibody (ABO12966).





Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.