

Rabbit Xanthine Oxidase Polyclonal Antibody | anti-XDH antibody

Anti-Xanthine Oxidase Picoband Antibody

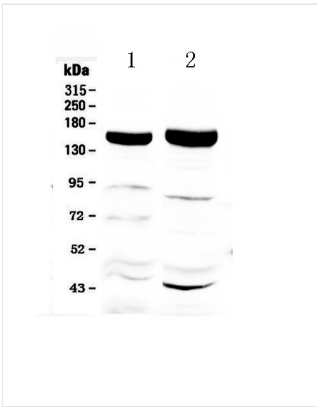
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124674	Rabbit	Reacts with: Mouse, Rat Predicted to work with: Human	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

Xanthine Oxidase; Polyclonal Antibody; Anti-Xanthine Oxidase Picoband Antibody; Xanthine dehydrogenase/oxidase; Xanthine dehydrogenase; XD; 1.17.1.4; Xanthine oxidase; XO; 1.17.3.2; Xanthine oxidoreductase; XOR; XDH; XDHA; anti-XDH antibody

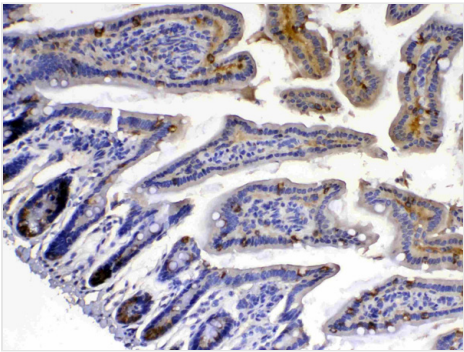
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Reacts with: Mouse, Rat Predicted to work with: Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	1,333
Applicable Applications for anti-XDH antibody	WB (Western Blot), IHC (Immunohistochemistry)
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.
Subcellular Localization	Cytoplasm. Peroxisome. Secreted.
Tissue Specificity	Detected in milk (at protein level).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



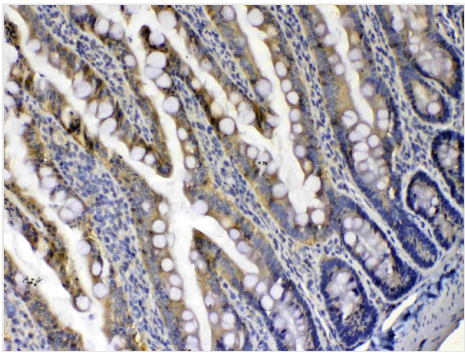
WB (Western Blot)

Figure 1. Western blot analysis of Xanthine Oxidase using anti-Xanthine Oxidase antibody (AAA124674). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysate, Lane 2: mouse liver tissue lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Xanthine Oxidase antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Xanthine Oxidase at approximately 146KD. The expected band size for Xanthine Oxidase is at 146KD.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Xanthine Oxidase using anti-Xanthine Oxidase antibody (AAA124674). Xanthine Oxidase was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Xanthine Oxidase Antibody (AAA124674) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Xanthine Oxidase using anti-Xanthine Oxidase antibody (AAA124674). Xanthine Oxidase was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Xanthine Oxidase Antibody (AAA124674) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-XDH antibody	Description: 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.
Product Categories/Family for anti-XDH antibody	Signal Transduction; Metabolism; Energy Metabolism; Metabolism; Pathways and Processes; Metabolic Signaling Pathways; Energy Transfer Pathways; Types of Disease; Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	91823271
NCBI GeneID	7498
NCBI Accession #	NP_000370.2
NCBI GenBank Nucleotide #	NM_000379.3
UniProt Accession #	P47989; Q16681; Q16712; Q4PJ16
NCBI Official Full Name	xanthine dehydrogenase/oxidase
NCBI Official Synonym Full Names	xanthine dehydrogenase
NCBI Official Symbol	XDH
NCBI Official Synonym Symbols	XO; XOR; XAN1
NCBI Protein Information	xanthine dehydrogenase/oxidase
UniProt Protein Name	Xanthine dehydrogenase/oxidase
UniProt Gene Name	XDH
UniProt Synonym Gene Names	XDHA; XO; XOR

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/xanthine-oxidase-antibody-western-blot-immunohistochemistry-elisa/124674>