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# Xanthine Oxidase (XDH) Rabbit mAb

**Catalog No.: A9022** Recombinant

## Basic Information

**Observed MW**
150kDa

**Calculated MW**
146kDa

**Category**
Primary antibody

**Applications**
ELISA,WB,IHC-P,IF/ICC

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC1385

## Background

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.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:500 - 1:2000 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |

## Immunogen Information

**Gene ID**
7498

**Swiss Prot**
P47989

**Immunogen**
Recombinant fusion protein containing a sequence corresponding to amino acids 202-293 of human Xanthine Oxidase (XDH) (P47989).

**Synonyms**
XO; XOR; XAN1; Xanthine Oxidase (XDH)

## Contact

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## Product Information

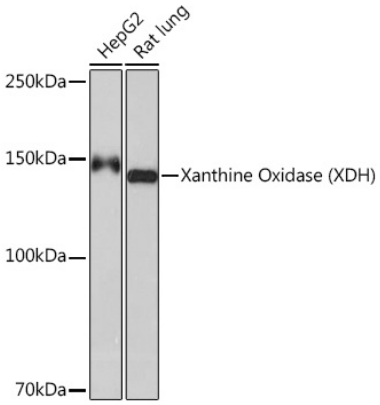
**Source**
Rabbit

**Isotype**
IgG

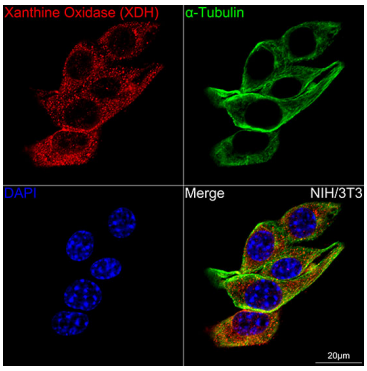
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

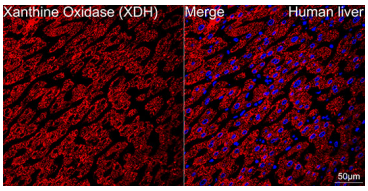
## Validation Data



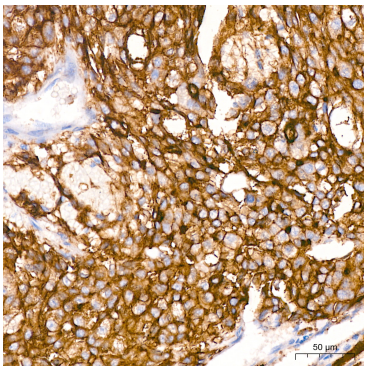

Western blot analysis of various lysates using Xanthine Oxidase (XDH) Rabbit mAb (A9022) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



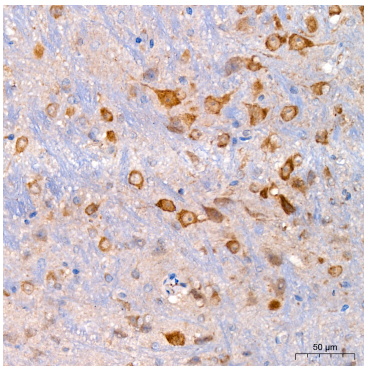

Confocal imaging of NIH/3T3 cells using Xanthine Oxidase (XDH) Rabbit mAb (A9022, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



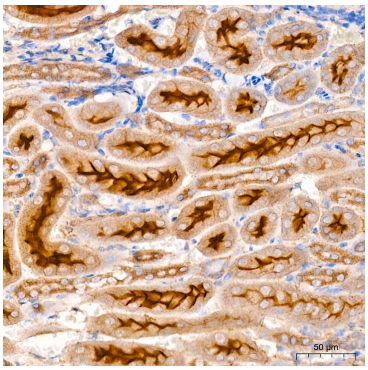

Confocal imaging of paraffin-embedded Human liver using Xanthine Oxidase (XDH) Rabbit mAb (A9022, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.




Immunohistochemistry analysis of Xanthine Oxidase (XDH) in paraffin-embedded human liver cancer using Xanthine Oxidase (XDH) Rabbit mAb (A9022) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.




Immunohistochemistry analysis of Xanthine Oxidase (XDH) in paraffin-embedded mouse brain using Xanthine Oxidase (XDH) Rabbit mAb (A9022) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM




Immunohistochemistry analysis of Xanthine Oxidase (XDH) in paraffin-embedded mouse kidney using Xanthine Oxidase (XDH) Rabbit mAb (A9022) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM

## Validation Data

citrate buffer pH 6.0 before commencing with IHC staining protocol.

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