

XDH monoclonal antibody

Catalog: MB9580

Host: Mouse

Reactivity: Human

BackGround:

The process of metabolizing purines to a common molecule known as xanthine is an essential process for the proper shuttling of uric acid. Xanthine oxidase is a flavo-protein enzyme that coordinates molybdenum and utilizes NAD⁺ as an electron acceptor to catalyze the oxidation of hypoxanthine to xanthine and then to uric acid. The predominant form of this enzyme is xanthine dehydrogenase, which is a homodimer that can be converted to xanthine oxidase by sulfhydryl oxidation or proteolytic modification. Xanthine oxidase is present in species ranging from bacteria to human and is ubiquitously expressed in mammalian tissues. In the oxidase form, this enzyme is coupled to the generation of free radicals. Individuals showing marked elevation of serum xanthine oxidase is suggestive of chronic liver disease and cholestasis, which is a condition defined by hepatic obstruction. Hepatic obstruction causes bile salts, the bile pigment bilirubin, and fats to accumulate in the blood stream instead of being eliminated normally. The clinical consequences of defects in xanthine oxidase range from mild to severe and even contribute to fatal disorders.

Product:

Mouse IgG1, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

146 kDa

Swiss-Prot:

P47989(Human)

Purification&Purity:

ProG affinity purified.

Applications:

IHC:1:50-1:200

FC:1:50-1:100ELISA:1:5,000-1:10,000

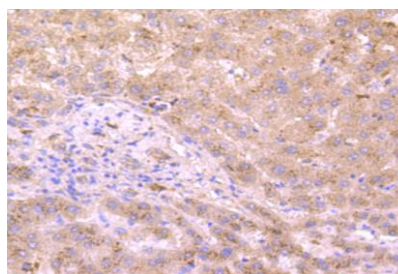
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

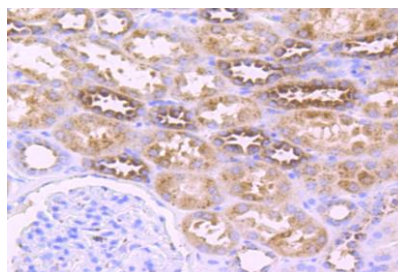
Specificity:

XDH monoclonal antibody detects endogenous levels of XDH protein.

DATA:



Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-xanthine dehydrogenase antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-xanthine dehydrogenase antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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