

xanthine dehydrogenase Antibody

Catalog No: #48373

Package Size: #48373-1 50ul #48373-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

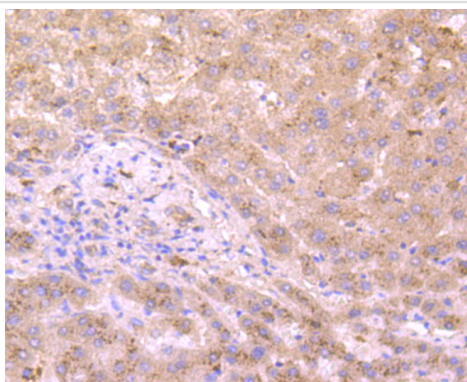
Description

Product Name	xanthine dehydrogenase Antibody			
Host Species	Mouse			
Clonality	Monoclonal			
Clone No.	1C8			
Purification	ProG affinity purified			
Applications	IHC,FC			
Species Reactivity	Hu			
Immunogen Description	Peptide			
Conjugates	Unconjugated			
Other Names	Xanthine dehydrogenase antibody	Xanthine dehydrogenase/oxidase antibody	Xanthine oxidase antibody	Xanthine oxidoreductase antibody
	XD antibody	XDH antibody	XDH_HUMAN antibody	xdha antibody
	XO antibody	xor antibody		
Accession No.	Swiss-Prot#:P47989			
Calculated MW	146 kDa			
Formulation	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.			
Storage	Store at -20°C			

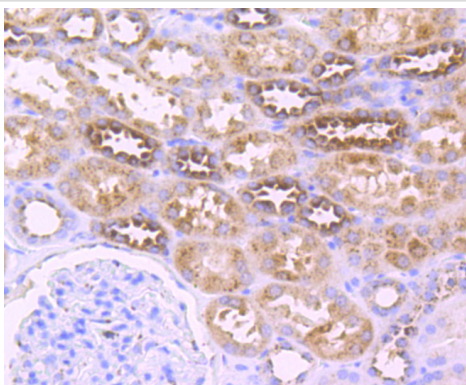
Application Details

IHC: 1:50-1:200 FC: 1:50-1:100

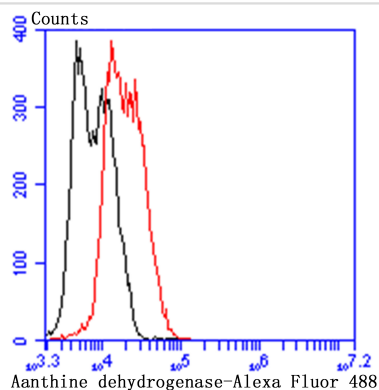
Images



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.



Flow cytometric analysis of LOVO cells with xanthine dehydrogenase antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated Goat anti mouse IgG was used as the secondary antibody.

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 flavoprotein 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.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.