

ARG59194 anti-XDH / Xanthine Oxidase antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes XDH / Xanthine Oxidase
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	XDH / Xanthine Oxidase
Species	Human
Immunogen	Recombinant protein corresponding to T2-K343 of Human XDH / Xanthine Oxidase.
Conjugation	Un-conjugated
Alternate Names	EC 1.17.1.4; XOR; XO; Xanthine dehydrogenase/oxidase [Includes: Xanthine dehydrogenase; XD; EC 1.17.3.2; Xanthine oxidoreductase

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

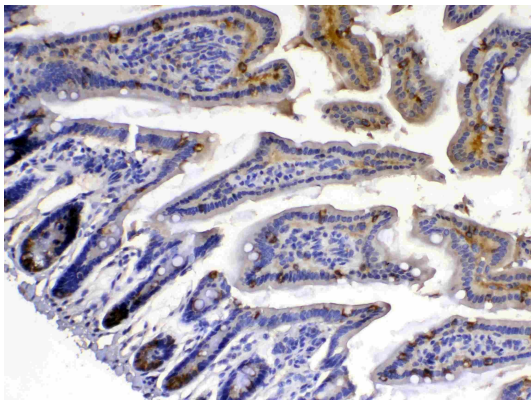
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

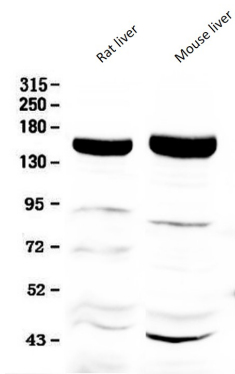
Gene Symbol	XDH
Gene Full Name	xanthine dehydrogenase
Background	Xanthine dehydrogenase belongs to the group of molybdenum-containing hydroxylases involved in the oxidative metabolism of purines. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically 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. [provided by RefSeq, Jan 2014]
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). [UniProt]
Calculated Mw	146 kDa
PTM	Subject to partial proteolysis; this alters the enzyme from the dehydrogenase form (D) to the oxidase form (O). Contains sulfhydryl groups that are easily oxidized (in vitro); this alters the enzyme from the dehydrogenase form (D) to the oxidase form (O). [UniProt]
Cellular Localization	Cytoplasm. Peroxisome. Secreted. [UniProt]

Images



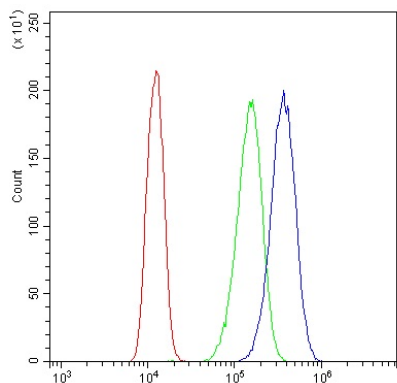
ARG59194 anti-XDH / Xanthine Oxidase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse intestine tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59194 anti-XDH / Xanthine Oxidase antibody at 1 µg/ml dilution, overnight at 4°C.



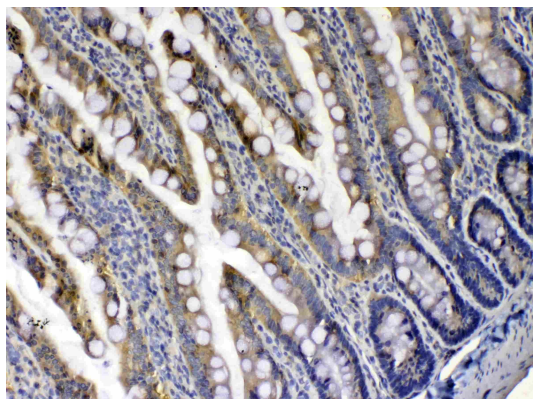
ARG59194 anti-XDH / Xanthine Oxidase antibody WB image

Western blot: 50 µg of samples under reducing conditions. Rat liver and Mouse liver tissue lysates stained with ARG59194 anti-XDH / Xanthine Oxidase antibody at 0.5 µg/ml, overnight at 4°C.



ARG59194 anti-XDH / Xanthine Oxidase antibody FACS image

Flow Cytometry: A431 cells were blocked with 10% normal goat serum and then stained with ARG59194 anti-XDH / Xanthine Oxidase antibody (blue) at $1 \mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG ($1 \mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG59194 anti-XDH / Xanthine Oxidase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat intestine tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59194 anti-XDH / Xanthine Oxidase antibody at $1 \mu\text{g}/\text{ml}$ dilution, overnight at 4°C .