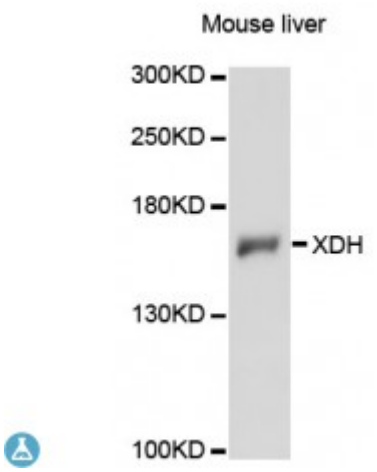
Anti-XDH Antibody



Description	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.
Model	STJ115019
Host	Rabbit
Reactivity	Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-280 of human XDH (NP_000370.2).
Gene ID	7498
Gene Symbol	XDH
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Detected in milk (at protein level)
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Xanthine dehydrogenase/oxidase

Molecular Weight	146.424 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:12805OMIM:278300Reactome:R-HSA-74259
Alternative Names	Xanthine dehydrogenase/oxidase
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),
Cellular Localization	Cytoplasm, Secreted
Post-translational Modifications	Subject to partial proteolysis