

Product datasheet for **AP09533SU-N**

Xanthine Oxidase (XDH) Guinea Pig Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western BLot: 1/2000 (ECL). Immunohistochemistry on Frozen Sections: 1/100-1/200. Immunohistochemistry on Paraffin Sections: 1/100-1/200 (Microwave treatment required). Incubation Time: 1 h at RT for immunohistochemistry.
Reactivity:	Bovine, Human, Mouse, Rat
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Xanthine Oxidase purified from Bovine Milk Fat Globule Membrane (MFGM).
Specificity:	The antiserum reacts specifically with Xanthine Oxidase, a 150 kD polypeptide present in lactating mammary gland epithelium and in MFGM. No cross-reaction with other MFGM proteins.
Formulation:	State: Serum State: Liquid Serum with 0.5 % BSA Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted short term at 2-8°C. Long term storage in aliquots at -20°C. Avoid freeze/thaw cycles.
Stability:	Shelf life: one year from despatch.
Gene Name:	xanthine dehydrogenase
Database Link:	Entrez Gene 22436 Mouse Entrez Gene 497811 Rat Entrez Gene 7498 Human P47989



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Background:	In normal tissues this enzyme exists predominantly as Xanthine Dehydrogenase which converts hypoxanthine and xanthine to uric acid, a critical plasma antioxidant. During ischemia, Xanthine Dehydrogenase is reversibly converted to the oxygen radical-producing Xanthine Oxidase by oxidation of essential sulfhydryl groups, or irreversibly, through limited proteolytic cleavage of the amino-terminus. Aldehyde Oxidase has a higher affinity for aldehydes than purines, but produces O ₂ ⁻ in a manner very similar to Xanthine Oxidase because both oxidases possess nearly identical internal electron transport systems. Xanthine oxidase 150 kD polypeptide is present in the apical membrane of lactating mammary epithelium and in MFGM.
Synonyms:	Xanthine dehydrogenase/oxidase
Protein Families:	Druggable Genome
Protein Pathways:	Caffeine metabolism, Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism