

Product datasheet for **AP54582PU-N**

Xanthine Oxidase (XDH) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1:1;000. Western blot: 1:100~500. Immunohistochemistry on paraffin sections: 1:50~100.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 213~242 amino acids from the N-terminal region of human XDH
Specificity:	This antibody detects Xanthine dehydrogenase/oxidase (N-term).
Formulation:	PBS with 0.09% (W/V) sodium azide State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein A column followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to six months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	xanthine dehydrogenase
Database Link:	Entrez Gene 22436 Mouse Entrez Gene 7498 Human P47989



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Background: XDH belongs to the group of molybdenum-containing hydroxylases involved in the oxidative metabolism of purines. The enzyme is a homodimer. This protein 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.

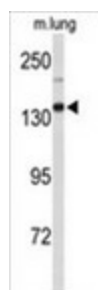
Synonyms: Xanthine dehydrogenase/oxidase

Note: **Molecular Weight:** 146424 Da

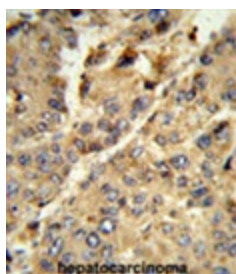
Protein Families: Druggable Genome

Protein Pathways: Caffeine metabolism, Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism

Product images:



Western blot analysis of XDH Antibody (N-term) in mouse lung tissue lysates (35 ug/lane). XDH (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with XDH Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.