



Anti-XDH polyclonal antibody (DPAB2422GB)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Xanthine Oxidase
Antigen Description	Xanthine oxidase, a form of xanthine oxidoreductase that generates reactive oxygen species. Is an enzyme that catalyzes the oxidation of hypoxanthine to xanthine and can further catalyze the oxidation of xanthine to uric acid. This enzyme plays an important role in the catabolism of purines in some species, including humans.
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.
Immunogen	Xanthine oxidase purified from bovine milk fat globule membrane (MFGM)
Source/Host	Guinea pig
Species Reactivity	Bovine
Conjugate	Unconjugated
Applications	IHC-Fr, IHC (PFA fixed), IB
Positive Control	Frozen sections of rat small intestine
Format	Stabilized antiserum
Size	100 µl
Preservative	None
Storage	At 2-8°C

GENE INFORMATION

Gene Name	XDH xanthine dehydrogenase [Bos taurus]
Official Symbol	XDH
Synonyms	XDH; xanthine dehydrogenase; xanthine dehydrogenase/oxidase; Xanthine Oxidase
Entrez Gene ID	280960
Protein Refseq	NP_776397
UniProt ID	P80457
Pathway	Caffeine metabolism; Drug metabolism - other enzymes; Metabolic pathways; Metabolism; Metabolism of nucleotides; Peroxisome; Purine catabolism; Purine metabolism
Function	2 iron, 2 sulfur cluster binding; UDP-N-acetylmuramate dehydrogenase activity; binding; electron carrier activity; flavin adenine dinucleotide binding; iron ion binding; metal ion binding; molybdopterin cofactor binding; oxidoreductase activity, acting on CH-OH group of donors; xanthine dehydrogenase activity; xanthine oxidase activity