

R1118BS**Polyclonal Antibody to Uricase - Biotin**

Alternate names:	EC 1.7.3.3, UOX, URIC, URO, Urate oxidase
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (by UV absorbance at 280 nm)
Background:	Uricase is a peroxisomal enzyme that catalyzes the conversion of urea to allantoin. Uricase performs this action by cleaving the purine ring of uric acid rendering it much more soluble within the body for excretion. Uricase within the Bacillus species is of high importance due to its high activity and thermostability over a wide range of pH's.
Uniprot ID:	Q5WBJ3
NCBI:	YP_177228.1
GeneID:	3202700
Host:	Goat
Immunogen:	Uricase from Bacillus species
Format:	State: Lyophilized purified Ig fraction Purification: Multi-step process including delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer Buffer System: 0.02 M Potassium phosphate, 0.15 M Sodium chloride, pH 7.2 Preservatives: 0.01% Sodium azide Stabilizers: 10 mg/ml BSA (immunoglobulin and protease free) Label: Biotin Reconstitution: Restore with 0.1 ml of deionized water (or equivalent).
Applications:	Western blot: 1/500-1/1000. ELISA: 1/1000-1/2500; This antibody has been assayed against 1.0 ug of uricase in a standard capture ELISA using peroxidase conjugated streptavidin and ABTS as a substrate for 30 minutes at room temperature. Immunoprecipitation: 1:100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Antibody detects Uricase [Bacillus species]. Cross reactivity against uricase from other sources is unknown. Immunoelectrophoresis gives a single precipitin arc against anti-Biotin, anti-goat serum as well as purified and partially purified uricase [Bacillus species].
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Dilute only prior to immediate use. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

1. Bayer & Wilchek Methods in Enzymology 184; 138-160, 1990. (Conjugation)
2. Wu XW, Lee CC, Muzny DM, Caskey CT. Urate oxidase: primary structure and evolutionary implications. Proc Natl Acad Sci U S A. 1989 Dec;86(23):9412-6. PubMed PMID: 2594778.
3. Pfrimer P, de Moraes LM, Galdino AS, Salles LP, Reis VC, De Marco JL, et al. Cloning, purification, and partial characterization of Bacillus subtilis urate oxidase expressed in Escherichia coli. J Biomed Biotechnol. 2010;2010:674908. doi: 10.1155/2010/674908. Epub 2010 Feb 4. PubMed PMID: 20168977.