

R1118PS**Polyclonal Antibody to Uricase - Purified****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 the peroxisomal enzyme responsible for the degradation of urate into allantoin. Uricase is a protein of 300 to 400 amino acids, its sequence is well conserved. It is mainly localised in the liver. In legumes, 2 forms of uricase are found: in the roots, the tetrameric form; and, in the uninfected cells of root nodules, a monomeric form, which plays an important role in nitrogen-fixation.

Uniprot ID:[Q5WBJ3](#)**NCBI:**[YP_177228.1](#)**GeneID:**[4178593](#)**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% (w/v) Sodium azide**Reconstitution:** Restore with 0.1 ml of deionized water (or equivalent).**Applications:****Western blot:** 1/500-1/1000.**ELISA:** 1/1000-1/2500;

This product has been assayed against 1.0 µg of uricase [Bacillus species] in a standard sandwich ELISA using peroxidase conjugated affinity purified anti-goat IgG [H&L] (Goat) and ABTS as a substrate for 30 minutes at room temperature.

Immunoprecipitation: 1/100.

Conjugation and most immunological methods require high titer and specificity. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This product detects uricase (Bacillus species). Cross reactivity against uricase from other sources is unknown.

Immunoelectrophoresis gives a single precipitin arc against 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. 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.
2. 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.

Pictures:

Uricase antibody Cat.-No. R1118P was used to detect purified uricase under reducing and non-reducing conditions. Samples of ~1 and 0.25 µg of protein per lane were run by SDS-PAGE and reduced samples of purified uricase contained 4% BME and were boiled for 5 minutes. Protein was transferred to nitrocellulose and probed (lot 6732). Primary antibody was detected with Dylight 649 conjugated donkey anti-goat secondary antibody.

