

## Product datasheet for **R1076BS**

### DNASE1 Rabbit Polyclonal Antibody

#### Product data:

|                        |   |
|------------------------|---|
| Product Type:          | Primary Antibodies  |
| Applications:          | ELISA, IP, WB   |
| Recommended Dilution:  | <b>Western blot:</b> 1/500-1/5,000.<br><b>Immunoprecipitation:</b> 1/100.<br><b>ELISA:</b> 1/5,000-1/20,000.<br>This product has been assayed against 1.0 µg of Deoxyribonuclease 1 from bovine pancreas in a capture ELISA using peroxidase conjugated streptavidin and ABTS as a substrate for 30 minutes at room temperature. A working dilution of 1/2,000 to 1/8,000 of the reconstitution concentration is suggested. |
| Reactivity:            | Bovine  |
| Host:                  | Rabbit  |
| Clonality:             | Polyclonal  |
| Immunogen:             | Deoxyribonuclease 1 from bovine pancreas  |
| Specificity:           | This antibody detects bovine Deoxyribonuclease 1. Cross reactivity against Deoxyribonuclease 1 from other tissues and species may occur but have not been specifically determined.<br>Immuno-electrophoresis give a single precipitin arc against anti-biotin, anti-rabbit serum as well as purified and partially purified Deoxyribonuclease 1 from bovine pancreas.   |
| Formulation:           | 0.02 M Potassium phosphate, 0.15 M Sodium chloride, pH 7.2<br>Label: Biotin<br>State: Purified<br>State: Lyophilized IgG fraction<br>Stabilizer: 10 mg/ml BSA (immunoglobulin and protease free)<br>Preservative: 0.01% (w/v) Sodium azide  |
| Reconstitution Method: | Restore with 0.1 ml of deionized water (or equivalent).   |
| Concentration:         | lot specific  |
| Purification:          | Delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer  |
| Conjugation:           | Biotin  |



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| <b>Storage:</b>       | Store lyophilized at 2-8°C for 6 months or at -20°C long term.<br>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.   |
| <b>Stability:</b>     | Shelf life: one year from despatch.  |
| <b>Database Link:</b> | <a href="#">Entrez Gene 282217 Bovine P00639</a>   |
| <b>Background:</b>    | <p>Deoxyribonuclease I (EC 3.1.21.1) gene is approximately 3.2 kb long with 9 exons separated by 8 introns. In the form of a bovine pancreatic enzyme preparation, it occupies an important place in the history of protein chemistry and enzymology: it was the first enzyme to be recognized as specific for DNA; it was the first DNase to be crystallized; and it was the first DNase for which a specific protein inhibitor was characterized.</p> <p>DNase I is a Ca<sup>2+</sup> and Mg<sup>2+</sup> dependant endonuclease. DNase I is synthesized in the pancreas and stored in zymogen granules. It has been used to reduce the viscosity of cystic fibrosis sputum. A DNase I-like enzyme appears to catalyze the degradation of chromatin to oligo- and mononucleosomes during apoptosis. A recent study has demonstrated an endonuclease with activity and antigenicity indistinguishable from DNase I in thymocytes, cells susceptible to apoptosis. DNase I is an endonuclease that hydrolyzes double-stranded or single stranded DNA preferentially at sites adjacent to pyrimidine nucleotides. The product of hydrolysis is a complex mixture of 5'-phosphate mononucleotides and oligonucleotides. In the presence of Mg ion, DNase I attacks each strand of DNA independently and the cleavage sites are random.</p> |
| <b>Synonyms:</b>      | DNASE1, DNL1, DRNI, Deoxyribonuclease I, DNase I   |