

For Research Use Only

# DNase I Recombinant antibody

Catalog Number: 83337-6-RR



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>83337-6-RR        | <b>GenBank Accession Number:</b><br>BC029437 | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>1000 µg/ml                  | <b>GeneID (NCBI):</b><br>1773                | <b>CloneNo.:</b><br>240222F11                         |
| <b>Source:</b><br>Rabbit                    | <b>UNIPROT ID:</b><br>P24855                 | <b>Recommended Dilutions:</b><br>WB 1:1000-1:4000     |
| <b>Isotype:</b><br>IgG                      | <b>Full Name:</b><br>deoxyribonuclease I     |   |
| <b>Immunogen Catalog Number:</b><br>AG10117 | <b>Calculated MW:</b><br>282 aa, 31 kDa      |   |
|   | <b>Observed MW:</b><br>31-40 kDa             |   |

## Applications

|   |  |
|---|--|
| <b>Tested Applications:</b><br>WB, ELISA    | <b>Positive Controls:</b><br>WB : mouse heart tissue, human urine sample |
| <b>Species Specificity:</b><br>human, mouse |  |

## Background Information

Deoxyribonuclease I (DNase I), also known as DNL1 and DRNI, belongs to the DNase I family. DNase I is a DNA-digestive glycoprotein that cleaves both single- and double stranded DNA through hydrolysis of the phosphodiester bond. In humans, the DNase I enzyme is primarily secreted by the pancreas, parotid, and pituitary glands into the digestive system and bloodstream. Since DNase I is ubiquitously expressed in human tissues, it is thought to play a similar anti-autoimmune role in other organs as well (PMID: 21806320). The calculated molecular weight of DNase I is 31 kDa. Sometimes higher molecular weight around 40 kDa can also be observed, which is caused by glycosylation (PMID: 34329318).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

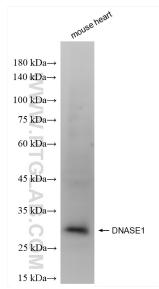
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

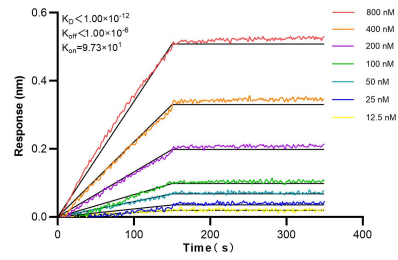
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 83337-6-RR (DNase I antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83337-6-RR against Human DNase I were performed. The affinity constant is below 1 pM.