

Product Specification Sheet

Mouse Deoxyribonuclease II (Dnase II)Antibodies

Cat # DNASE22-P	Mouse DNase II Control peptide # 2	SIZE: 100 ug
Cat # DNASE22-S	Rabbit Anti-Mouse DNase II antiserum # 2	SIZE: 100 ul
Cat # DNASE22-A	Rabbit Anti-Mouse DNase II IgG # 2, aff pure	SIZE: 100 ug

Deoxyribonuclease II (Dnase II, EC.3.1.22.1) is one of the two Dnase present in mammalian tissues and biological fluids. Dnase II hydrolyzes DNA to 3'-phosphoryl oligonucleotides under acidic conditions. Dnase II is also known as "acid Dnase". It has preference of for dsDNA. Dnase II has been implicated in internucleosomal cleavage of chromatin to generate DNA fragments or ladder, a hallmark of apoptosis. Dnase II (mouse 353-aa; human 360-aa, chromosome 19p13.2-q13.4) is a lysosomal enzyme present in most tissues. Dnase II is synthesized as a pro-enzyme (signal peptide 1-16 aa, propeptide region of 91-aa, and 253-aa mature protein (110-353 aa) and processed to produce active enzyme containing 2-chains of ~32 and 12 kDa. Dnase II has no significant sequence homology with Dnase I.

Source of Antigen and Antibodies

Antigen	A 17-aa peptide (designated DNASE22-P , control/blocking peptide) near the C-terminus of mouse Dnase II (1) was synthesized, coupled to KLH
Ab Host/type	Rabbit, Polyclonal antiserum # DNASE22-S and IgG, purified over antigen-agarose (Cat # DNASE22-A)
2-Ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
-ve control IgG	Cat # 20009-1, Rabbit (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified)

100ul solution lyophilized powder
Supplied 0.05% azide, **Reconstitute** powder in 100 ul PBS

Affinity pure IgG

100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

100 ug/100 ul solution lyophilized powder
Supplied in **Buffer:** PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder

Recommended Usage

ELISA (1:10-50K; using 50-100 ng control peptide/well).

Histochemistry & Immunofluorescence: Not tested.

Specificity & Cross-reactivity

The DNASE22-P peptide sequence is not well conserved in human Dnase II. We recommend the use of DNASE21-A for the study of human Dnase II. DNASE22-P has no significant sequence homology with other lysosomal enzymes. Control peptide, because of its low mol. Wt (<3 kDa), is not suitable for Western. It should be used for ELISA or antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity (detailed protocol is available at the web site).

General References: (1) Yasuda T et al (1998) JBC 273, 2610-2616; Barker KP et al (1998) Gene 215, 281-289; Shilokawa D et al (1998) BBRC 247, 864-869; Yasuda T et al (1998) Ann. Hum. Genet. 62, 299-305;

*This product is for In vitro research use only.

Related material available from ADI

Antibodies to MGMT, hNTH, DNASE, APE etc are available.

Anti-Rabbit IgG-HRP Conjugate and ECL Reagents

Western Blot Recycling Kit (Strips blots in 5 minutes) and re-use the same blot with multiple antibodies

DNASE22-S-A-P

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