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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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DNase II alpha (CT). Rabbit Polyclonal Antibody
Deoxyribonuclease II (CT), DNASE2A, DNL2

BACKGROUND

Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of members of caspase family, caspase activated DNase, and several novel proteins including AIF and Acinus (1). DNase II causes both chromatin condensation and DNA fragmentation (1). The genes encoding human (2-4), porcine (4), and murine (5) DNase II have been cloned. The DNase II gene encodes a 40 kDa proenzyme. The mature enzyme consists of two non-identical subunits, the 32 kDa (a) and 12 kDa (b) chains, generated by proteolytic processing. Overexpression of DNase II induces chromatin condensation (3). DNase II is ubiquitously expressed in human tissues.

ORDERING INFORMATION

CATALOG NUMBER
X1110P

SIZE
100 μ g

FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

CONCENTRATION
See vial for concentration

ISOTYPE
IgG

APPLICATIONS
Western Blot

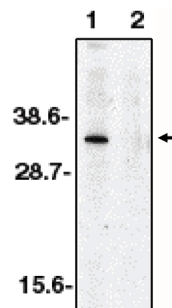
SPECIES REACTIVITY
Human

ACCESSION NUMBER
Human O00115

IMMUNOGEN

A synthetic peptide corresponding to amino acids 347 to 360 of human DNase II precursor (2-4).

Western blot analysis using anti-DNaseII (CT) antibody at 1 μ g/ml on human spleen tissue lysate in the absence (1) and presence (2) of blocking peptide.



POSITIVE CONTROL/TISSUE EXPRESSION

Tissue lysates from human spleen

COMMENTS

Detects DNase II expression by Western blot at 0.5 to 1 $\mu\text{g/ml}$. Detects an approximately 32 kDa (α chain) band in human spleen lysates. It doesn't recognize the 12 kDa β chain. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C . Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Condensed matter in cell death. Zamzami, N., et al. Nature 1999, 401, 127-8
2. Molecular cloning of the cDNA encoding human deoxyribonuclease II. Yasuda, T., et al., J. Biol. Chem. 1998, 273, 2610-6
3. The cloning and expression of human deoxyribonuclease II. A possible role in apoptosis. Krieser, R.J. and Eastman, A. J. Biol. Chem. 1998, 273, 30909-14
4. Cloning of cDNAs encoding porcine and human DNase II. Shiokawa, D., et al., Biochem. Biophys. Res. Commun. 1998, 247, 864-9
5. Molecular cloning and characterization of human and murine DNase II. Baker, K.P., et al., Gene 1998, 215, 281-9

PRODUCT SPECIFIC REFERENCES