

# ELISA kit for the detection of Dnase Activity in the research laboratory

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55R-ORG590

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## ELISA kit for the detection of Dnase Activity in the research laboratory

### More information

Name:	ELISA kit for the detection of Dnase Activity in the research laboratory
Product group:	Kits
Product Number:	ABCA0131250
Price	Please Enquire
Quantity:	96 Test(s)
Type of Kit:	ELISA
Availabilitiy:	THIS PRODUCT IS DISCONTINUED.
Non Confirming product:	replace the product at no cost.



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### Description:

**Deoxyribunuclease (DNase), an enzyme potentially involved in chromatin metabolism has been implicated in degrading DNA during apoptosis. Recently, studies have shown that a DNase deficient human cell line is resistant to drug-induced apoptosis. Furthermore, it has been described that transgenic mice, deficient in DNase cannot remove circulating nucleosomes. This failure in apoptosis leads to the development of a spontaneous lupus-like syndrome (e.g. glomerulonephritis). A deficiency in DNase was also found in patients with SLE correlating with high titers of antibodies against nucleosomal antigens. The activity of DNase is often decreased in patients with SLE. It has been shown that a single nucleotide mutation in the DNase I gene reduces the total activity of this enzyme. B-cells of SLE patients with this mutation have only 30-50% the of DNase activity compared to healthy individuals. Accordingly, the IgG titer against nucleosomal antigens was 78 times higher in SLE patients than in SLE patients**

**without this mutation and 70-80 times higher compared to healthy individuals.**

#### Application

Applications:	ELISA
Application notes:	Optimal conditions to be determined by end-user
Research area:	Enzymes Inhibitors Protease inhibitor

#### Components

Component	Concentration	Description	Volume	Cap Color
Notes		Specific DNase substrate is bound to microwells. Any present DNase activity reacts with the specific immobilised DNase substrate for 60 minutes at 37 °C. Washing of the microwells removes nonreactive serum components. Horseradish peroxidase (HRP) conjugated antiDNase substrate immunologically bind to the remaining DNase substrate immobilized on the microplate. Washing of the microwells removes unbound conjugate. An enzyme substrate in the presence of bound conjugate hydrolyzes to form a blue color. The addition of an acid stops the reaction forming a yellow endproduct. The intensity of this yellow color is measured photometrically at 450 nm. The amount of colour is inversely proportional to the DNase activity. Pathologic samples exhibit a higher activity reduction (%AR).		

#### Product Information

Storage:	Store at 2-8 deg C
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