

Rat APEX Nuclease 1 (APEX1) ELISA Kit | APEX1 elisa kit

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CATALOG #
AAA68487

REACTIVITY
Rat

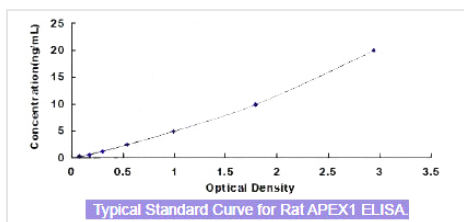
PRODUCT SYNONYMS

APEX Nuclease 1 (APEX1); Rat APEX Nuclease 1 (APEX1) ELISA Kit; APE; APE1; APEN; APEX; APX; HAP1; REF1; Multifunctional DNA Repair Enzyme; APEX Nuclease 1; Redox factor-1; DNA-(apurinic or apyrimidinic site) lyase; APEX1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of APEX1. No significant cross-reactivity or interference between APEX1 and analogues was observed.
Sequence Length	317
Samples	Rat tissue homogenates, cell lysates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	< 0.143ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level APEX1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level APEX1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for APEX1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of APEX1 in rat tissue homogenates, cell lysates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to APEX1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to APEX1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain APEX1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of APEX1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13162337
NCBI GeneID	79116
NCBI Accession #	NP_077062.1
NCBI GenBank Nucleotide #	NM_024148.1
UniProt Accession #	P43138; Q548N9
Molecular Weight	35,538 Da
NCBI Official Full Name	DNA-(apurinic or apyrimidinic site) lyase
NCBI Official Synonym Full Names	apurinic/apyrimidinic endodeoxyribonuclease 1
NCBI Official Symbol	Apex1
NCBI Official Synonym Symbols	APE; Apex; REF-1
NCBI Protein Information	DNA-(apurinic or apyrimidinic site) lyase
UniProt Protein Name	DNA-(apurinic or apyrimidinic site) lyase
UniProt Gene Name	Apex1
UniProt Synonym Gene Names	Ape; Apex; Ref1; APEN; AP endonuclease 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.