



# Recombinant Rat DNA- (apurinic or apyrimidinic site) lyase (Apex1)

<b>Product Code</b>	CSB-MP001900RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P43138
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	PKRGKRAAA EDGEEPKSEP ETKKSKGAAK KTEKEAAGEG PVLIEDPPDQ KTSASGKSAT LKICSWNVDG LRAWIKKKGL DWVKEEAPDI LCLQETKCSE NKLPAELQEL PGLTHQYWSA PSDKEGYSGV GLLSRQCPLK VSYGIGEEEH DQEGRVIVAE FESFILVTAY VPNAGRGLVR LEYRQRWDEA FRKFLKDLAS RKPLVLCGDL NVAHEEIDLR NPKGNKKNAG FTPQERQGFQ EMLQAVPLAD SFRHLYPNTA YAYTFWTYMM NARSKNVGWR LDYFLLSHSL LPALCDSKIR SKALGSDHCP ITLYLAL
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Apex1
<b>Protein Names</b>	Recommended name: DNA-(apurinic or apyrimidinic site) lyase EC= 3.1.-.- EC= 4.2.99.18 Alternative name(s): APEX nuclease Short name= APEN Apurinic-apyrimidinic endonuclease 1 Short name= AP endonuclease 1 REF-1
<b>Expression Region</b>	2-317
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	Apurinic/apyrimidinic (AP) sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. AP sites are pre-mutagenic lesions that can prevent normal DNA replication so the cell contains systems to identify and repair such sites. Class II AP endonucleases cleave the phosphodiester backbone 5' to the AP site. This gene encodes the major AP endonuclease in human cells. Splice variants have been found for this gene; all encode the same protein.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.