

## Datasheet

### APEX1 monoclonal antibody (M05), clone 3E12

**Catalog Number:** H00000328-M05

**Regulation Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a full-length recombinant APEX1.

**Clone Name:** 3E12

**Immunogen:** APEX1 (AAH02338, 1 a.a. ~ 318 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

MPKRGKKGAVAEDGDELRTPEAKKSKTAAKNDKE  
AAGEGPALYEDPPDQKTSPSGKPATLKICSWNV DGLR  
AWIKKKGLDWVKEEAPDILCLQETKCSENKLP AELQEL  
PGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVS YGIG  
EEEHDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEY  
RQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDL R  
NPKGNKKNAGFTPQERQGFCELLQAVPLADSFRL YLP  
NTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPAL  
CDSKIRSKALGSDHCPITLYLAL

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, IP, S-ELISA

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Isotype:** IgG2a Kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 328

**Gene Symbol:** APEX1

**Gene Alias:** APE, APE-1, APE1, APEN, APEX, APX, HAP1, REF-1, REF1

**Gene Summary:** Apurinic/aprimidinic (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. [provided by RefSeq]