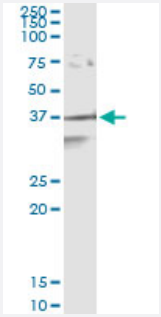
APEX1 monoclonal antibody (M05), clone 3E12

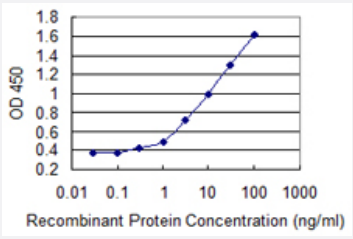
Catalog # H00000328-M05 Size 100 ug

Applications



Immunoprecipitation

Immunoprecipitation of APEX1 transfected lysate using anti-APEX1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with APEX1 MaxPab rabbit polyclonal antibody.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged APEX1 is 0.1 ng/ml as a capture antibody.

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant APEX1.
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	MPKRGKKGAVAEDGDELRTEPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLK ICSWNVDGLRAWIKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEG YSGVGLLSRQCPLKVSYGIGEEEHDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAF RKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKGNKKNAGFTPQERQGFGELLQAVPLADSFRHLY PNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKIRSKALGSDHCPITLYLAL
Host	Mouse

Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunoprecipitation

  Immunoprecipitation of APEX1 transfected lysate using anti-APEX1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with APEX1 MaxPab rabbit polyclonal antibody.

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged APEX1 is 0.1 ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — APEX1

Entrez GeneID	328
GeneBank Accession#	BC002338
Protein Accession#	AAH02338
Gene Name	APEX1
Gene Alias	APE, APE-1, APE1, APEN, APEX, APX, HAP1, REF-1, REF1
Gene Description	APEX nuclease (multifunctional DNA repair enzyme) 1
Omim ID	107748
Gene Ontology	Hyperlink

Gene Summary	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 a re pre-mutagenic lesions that can prevent normal DNA replication so the cell contains systems to i dentify and repair such sites. Class II AP endonucleases cleave the phosphodiester backbone 5' t o the AP site. This gene encodes the major AP endonuclease in human cells. Splice variants hav e been found for this gene; all encode the same protein. [provided by RefSeq
Other Designations	AP endonuclease class I|AP lyase|APEX nuclease|DNA-(apurinic or apyrimidinic site) lyase|OTT HUMP00000163988|apurinic/apyrimidinic (abasic) endonuclease|apurinic/apyrimidinic exonucle ase|deoxyribonuclease (apurinic or apyrimidinic)|multifunctional DNA repa

Pathway

- Base excision repair

Disease

- Acute Disease
- Adenocarcinoma
- Adenomatous Polyposis Coli
- Adenomyoma
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anoxia
- Arsenic Poisoning
- Ataxia telangiectasia
- Biliary Tract Neoplasms
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cerebrovascular Accident

- Chromosome Aberrations
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Colon cancer
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Endometriosis
- Esophageal Neoplasms
- Fibrosis
- Gallstones
- Genetic Predisposition to Disease
- Glioma
- Graft vs Host Disease
- Graves Disease
- Head and Neck Neoplasms
- Helicobacter Infections
- Kidney Failure
- Laryngeal Neoplasms
- Leukemia
- Lung Neoplasms
- Lymphatic Metastasis

- Lymphoma
- Malignant melanoma
- Melanoma
- Meningeal Neoplasms
- Meningioma
- Micronuclei
- Mouth Abnormalities
- Mouth Neoplasms
- Multiple Sclerosis
- Myocardial Infarction
- Neoplasm Recurrence
- Neoplasms
- Neuroma
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Papillomavirus Infections
- Pharyngeal Neoplasms
- Precancerous Conditions
- Pre-Eclampsia
- Prostate cancer
- Prostatic Neoplasms
- Pulmonary Disease
- Radiation Injuries
- Skin Diseases

- Skin Neoplasms
- Spinal Dysraphism
- Stomach Neoplasms
- Stroke
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Werner syndrome