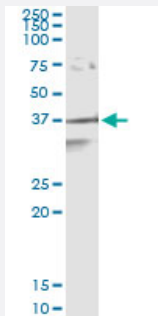


APEX1 monoclonal antibody (M05), clone 3E12

Catalog # H00000328-M05

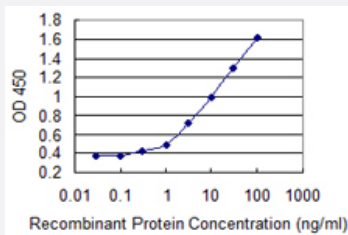
Size 100 ug

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

MPKRGKKGAVAEDGDELRTPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLK
ICSWNV DGLRAWIKKKGLDWVKEEAPDILCLQETKCSENKLP AELQELPGLSHQYWSAPSDKEG
YSGVGLLSRQCPLKVSYGIGEEH DQEGRVVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAF
RKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKGNKKNAGFTQERQGF GELLQAVPLADSFRLHY
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/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]

Other Designations

AP endonuclease class II|AP lyase|APEX nuclease|DNA-(apurinic or apyrimidinic site) lyase|OTT HUMP00000163988|apurinic/apyrimidinic (abasic) endonuclease|apurinic/apyrimidinic exonuclease|deoxyribonuclease (apurinic or apyrimidinic)|multifunctional DNA repair

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](#)