

Product datasheet for **TA324200S**

APE1 (APEX1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Hela cells and human liver cancer tissue, Raji, Jurkat, 293T and PC3 cells IHC: 15-50 Positive control: Human colon cancer Predicted cell location: Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 15-224 amino acids of human APEX nuclease (multifunctional DNA repair enzyme) 1
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	36 kDa
Gene Name:	apurinic/aprimidinic endodeoxyribonuclease 1
Database Link:	NP_001231178 Entrez Gene 11792 Mouse Entrez Gene 79116 Rat Entrez Gene 328 Human P27695



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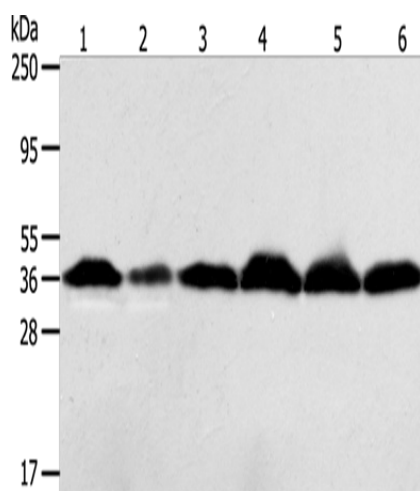
Background: Apurinic/apryrimidinic (AP) sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. AP sites are pre-mutagenic lesions that can prevent normal DNA replication so the cell contains systems to identify 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.

Synonyms: APE; APE1; APEN; APEX; APX; HAP1; REF1

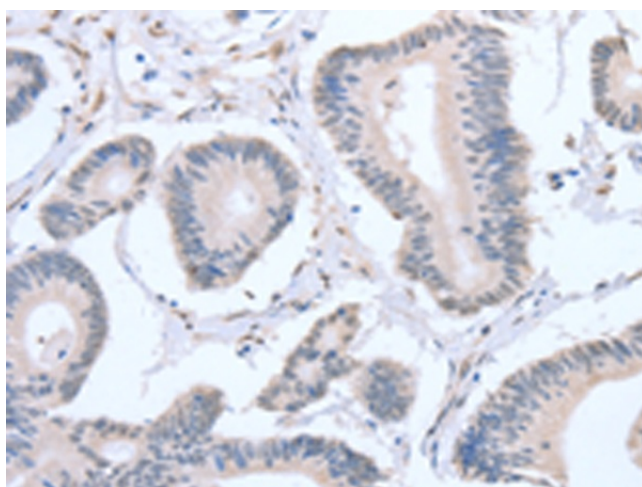
Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Base excision repair

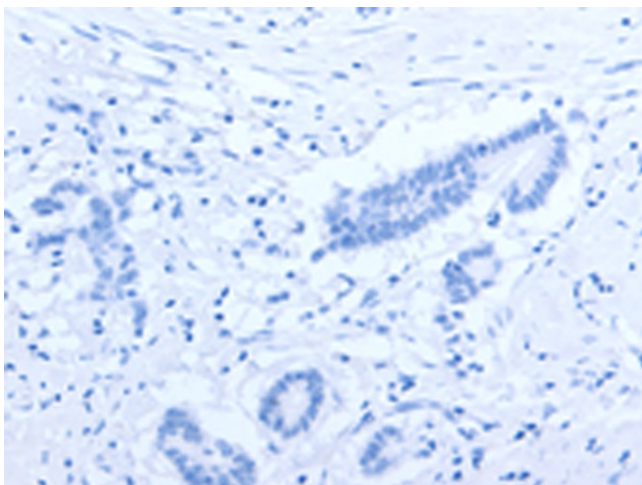
Product images:



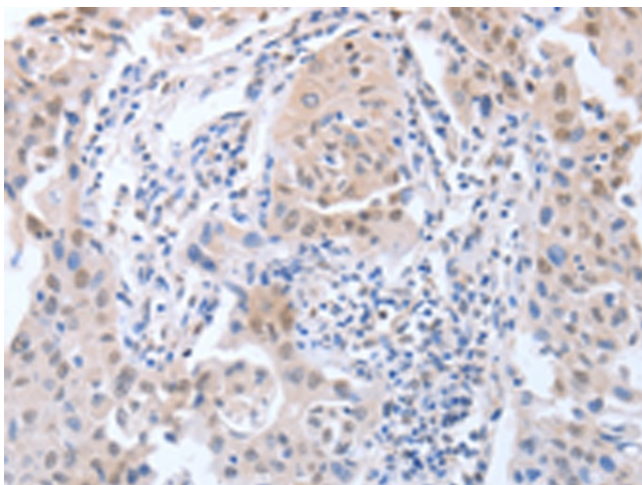
Gel: 12%SDS-PAGE
Lysate: 40 µg
Lane 1-6: Hela cells
human liver cancer tissue
Raji cells
Jurkat cells
293T cells
PC3 cells
Primary antibody: [TA324200] (APEX1 Antibody)
at dilution 1/450
Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution
Exposure time: 1 minute



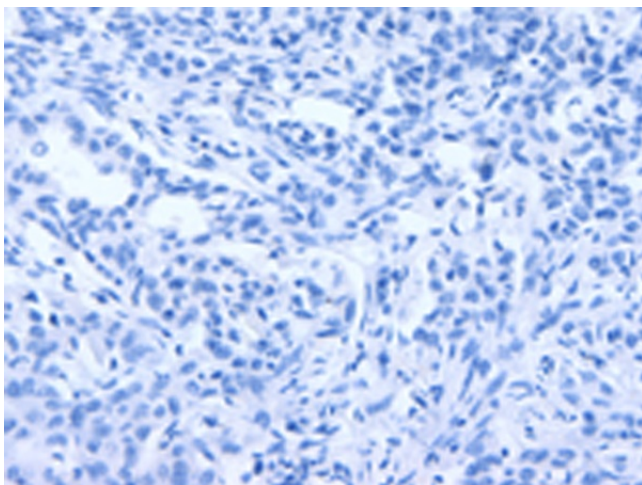
Immunohistochemistry of paraffin-embedded
Human colon cancer tissue using [TA324200]
(APEX1 Antibody) at dilution 1/20 (Original
magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using [TA324200] (APEX1 Antibody) at dilution 1/20, treated with fusion protein. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using [TA324200] (APEX1 Antibody) at dilution 1/20 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using [TA324200] (APEX1 Antibody) at dilution 1/20, treated with fusion protein. (Original magnification: $\times 200$)