

## Product datasheet for **TA324200**

### **APE1 (APEX1) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	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
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Fusion protein corresponding to a region derived from 15-224 amino acids of human APEX nuclease (multifunctional DNA repair enzyme) 1
<b>Formulation:</b>	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Antigen affinity purification
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	36 kDa
<b>Gene Name:</b>	apurinic/aprimidinic endodeoxyribonuclease 1
<b>Database Link:</b>	<a href="#">NP_001231178</a> <a href="#">Entrez Gene 11792 Mouse</a> <a href="#">Entrez Gene 79116 Rat</a> <a href="#">Entrez Gene 328 Human</a> <a href="#">P27695</a>



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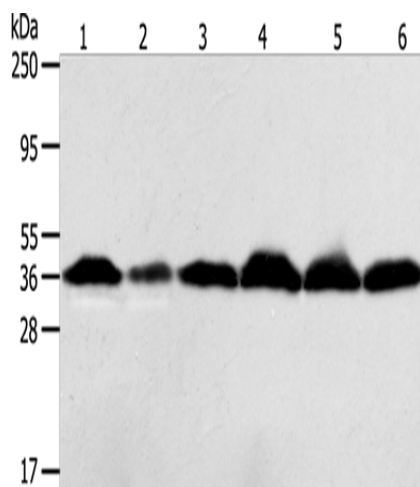
**Background:** Apurinic/apyrimidinic (AP) sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. AP sites are pre-mutagenic lesions that can prevent normal DNA replication so the cell contains systems to identify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

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

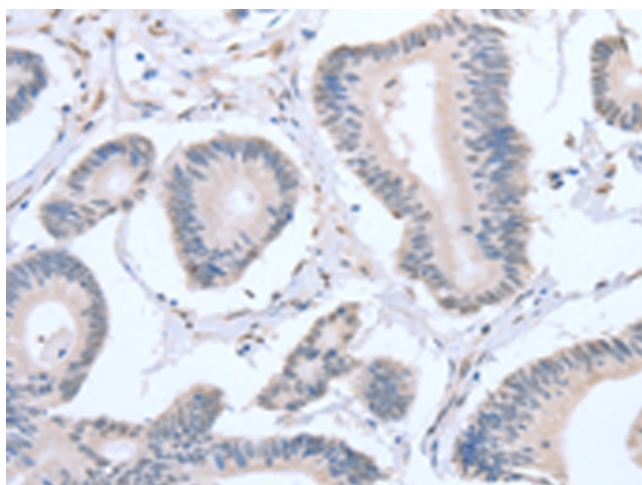
**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:** Base excision repair

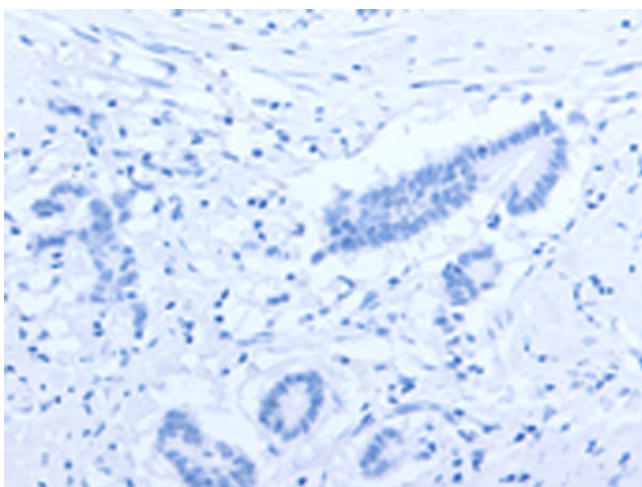
### Product images:



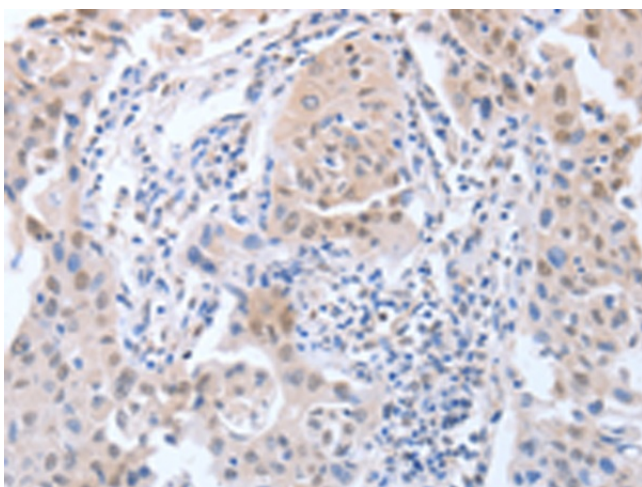
Gel: 12%SDS-PAGE  
Lysate: 40 µg  
Lane 1-6: HeLa cells  
human liver cancer tissue  
Raji cells  
Jurkat cells  
293T cells  
PC3 cells  
Primary antibody: TA324200 (APEX1 Antibody) at dilution 1/450  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 1 minute



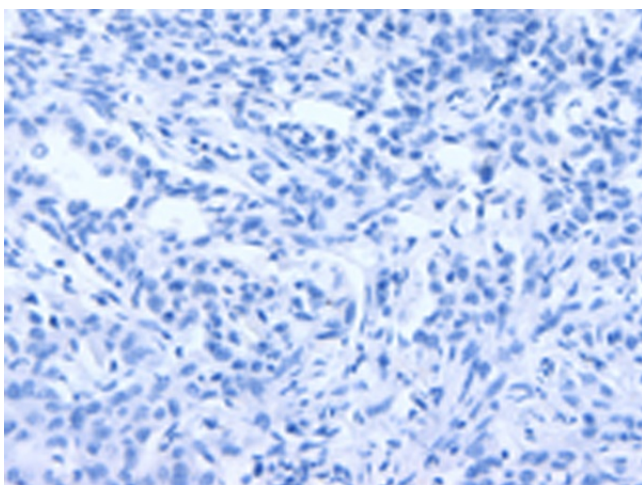
Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA324200 (APEX1 Antibody) at dilution 1/20 (Original magnification: ×200)



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



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



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