

## Product datasheet for **TA308774**

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

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, IHC, WB
<b>Recommended Dilution:</b>	ICC/IF:1:100-1:1000; IHC:1:100-1:1000; WB:1:500-1:3000
<b>Reactivity:</b>	Human (Predicted: Pig, Chimpanzee, Rhesus Monkey)
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthetic peptide corresponding to a region within amino acids 1 and 45 of APE1 (Uniprot ID#P27695)
<b>Formulation:</b>	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity purified by Protein A.
<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_542380</a> <a href="#">Entrez Gene 328 Human P27695</a>
<b>Background:</b>	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]
<b>Synonyms:</b>	APE; APE1; APEN; APEX; APX; HAP1; REF1



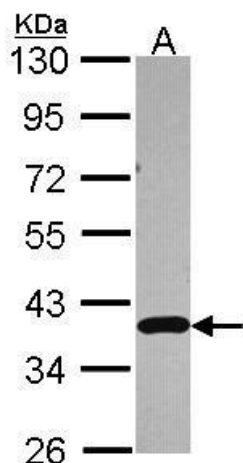
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**Note:** Seq homology of immunogen across species: Pig (93%), Rhesus Monkey (100%), Chimpanzee (100%)

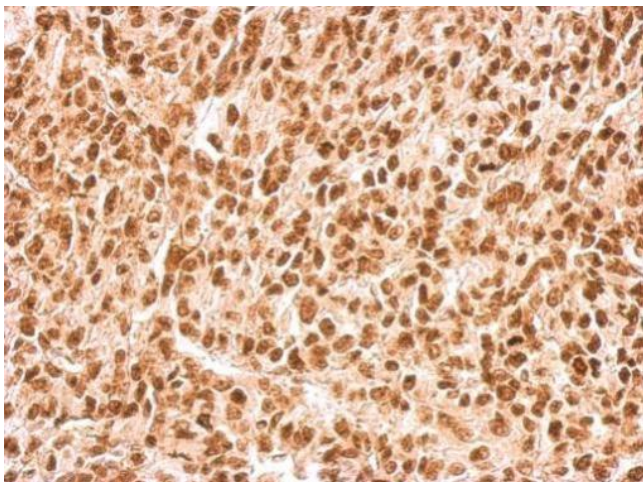
**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:** Base excision repair

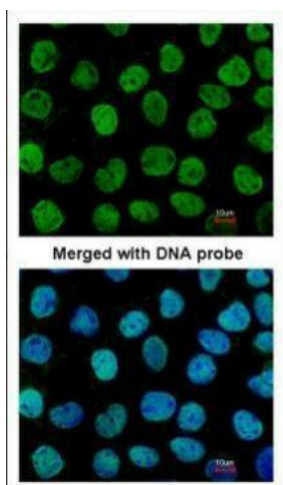
**Product images:**



Sample (30 ug of whole cell lysate). A: A549. 10% SDS PAGE. TA308774 diluted at 1:3000.



APE1 antibody [N1], N-term detects APEX1 protein at nucleus on Saos2 xenograft by immunohistochemical analysis. Sample: Paraffin-embedded Saos2 xenograft. APE1 antibody [N1], N-term (TA308774) dilution: 1:500.



Immunofluorescence analysis of paraformaldehyde-fixed A431, using APE1 (TA308774) antibody at 1:200 dilution.