

## Product datasheet for **TA302643**

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

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	ELISA: 1:16,000. WB: 0.1-0.3ug/ml. IHC: 4-6ug/ml
<b>Reactivity:</b>	Human (Expected from sequence similarity: Dog, Pig, Cow)
<b>Host:</b>	Goat
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Peptide with sequence PKRGKKGAVAEDGD-C, from the N Terminus of the protein sequence according to NP_001632.2; NP_542379.1; NP_542380.1.
<b>Formulation:</b>	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
<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>	35.4 kDa
<b>Gene Name:</b>	apurinic/aprimidinic endodeoxyribonuclease 1
<b>Database Link:</b>	<a href="#">NP_001632</a> <a href="#">Entrez Gene 482558 Dog</a> <a href="#">Entrez Gene 328 Human</a> <a href="#">P27695</a>



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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. [provided by RefSeq]

**Synonyms:**

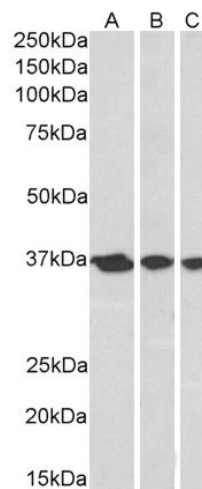
APE; APE1; APEN; APEX; APX; HAP1; REF1

**Protein Families:**

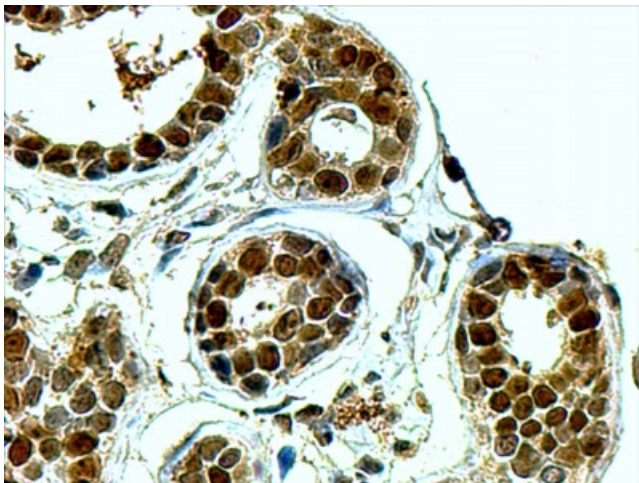
Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:**

Base excision repair

**Product images:**


TA302643 (0.3ug/ml) staining of A431 (A), HeLa (B) and MCF7 (C) nuclear lysates (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA302643 (4ug/ml) staining of paraffin embedded Human Breast. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.