## UK Office

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# EB05345 - Goat Anti-APE1 / APEX1 Antibody

Size: 100µg specific antibody in 200µl

## Target Protein

**Principal Names:** APE1, APEX1, APEX, APEX nuclease (multifunctional DNA repair enzyme), APE, APX, APEN, HAP1, REF1, REF-1, AP lyase, AP endonuclease class I, apurinic/apyrimidinic exonuclease, multifunctional DNA repair enzyme, DNA-(apurinic or apyrimidinic site) lyase, apurinic/apyrimidinic (abasic), APEX nuclease 1 endonuclease, deoxyribonuclease (apurinic or apyrimidinic), apurinic/apyrimidinic (abasic) endonuclease, redox factor 1
**Official Symbol:** APEX1
**Accession Number(s):** NP_001632.2
**Human GeneID(s):** 328
**Important Comments:** Reported variants represent identical protein (NP_001632.2; NP_542379.1; NP_542380.1).

## Immunogen

Peptide with sequence PKRGKKGAVAEDGD-C, from the N Terminus of the protein sequence according to NP_001632.2.

Please note the peptide is available for sale.

## Purification and Storage

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.
Aliquot and store at -20°C. Minimize freezing and thawing.

## Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:16000.
**Western blot:** Approx 37kDa band observed in nuclear lysates of cell lines A431, HeLa and MCF7 (calculated MW of 35.6kDa according to NP_001632.2, NP_542379.1 and NP_542380.1). Recommended concentration: 0.1-0.3µg/ml.
**IHC:** In paraffin embedded Human Breast shows nuclear staining of lobular epithelial cells. Recommended concentration: 4-6µg/ml.

## Species Reactivity

**Tested:** Human
**Expected from sequence similarity:** Human, Dog, Pig, Cow

EB05345 (0.3µg/ml) staining of A431 (A), HeLa (B) and MCF7 (C) nuclear lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB05345 (4µg/ml) staining of paraffin embedded Human Breast. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.