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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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.

**Additional validation:** This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.

### Species Reactivity

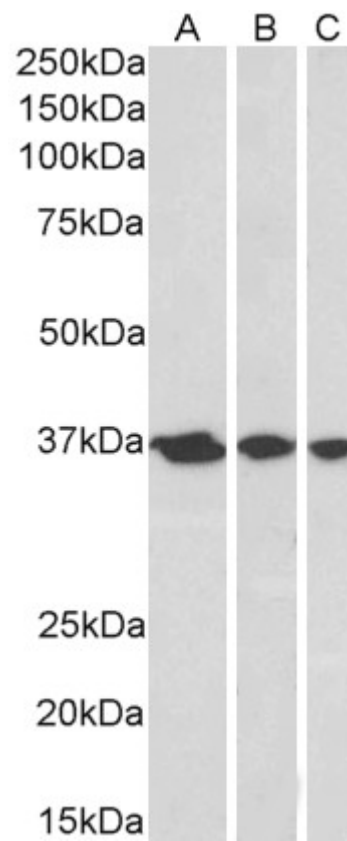
**Tested:** Human

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

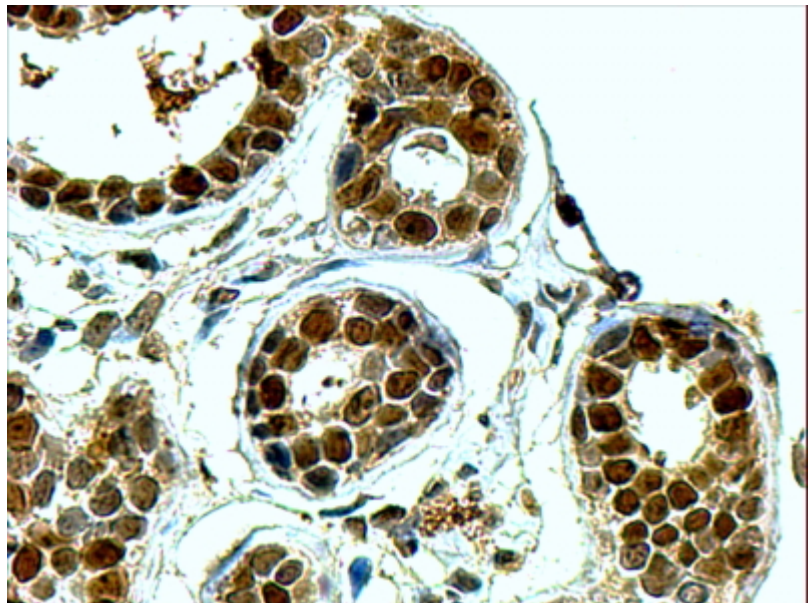
### Specific Reference

**This antibody has been successfully used in the following paper:**

Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen  
A high-throughput pipeline for validation of antibodies  
Nat Methods. 2018 Nov;15(11):909-912  
PMID: 30377371



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



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