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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.

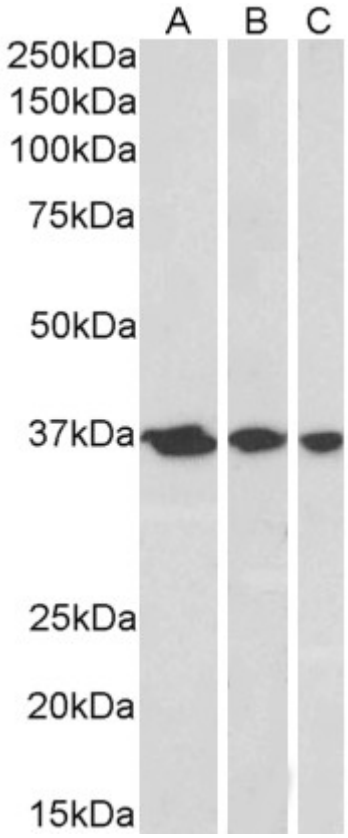
Additional validation: This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.

Species Reactivity

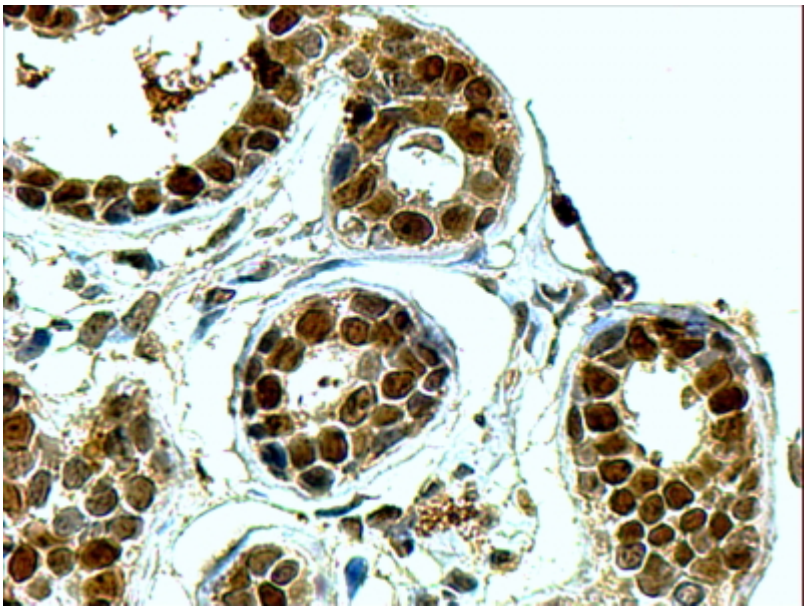
Tested: Human
Expected from sequence similarity: Human, Dog, Pig, Cow

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 (0.3µg/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.