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Goat anti-APE1 / APEX1 Antibody

Item Number	dAP-0097
Target Molecule	Principle Name: APE1 / APEX1; Official Symbol: APEX1; All Names and Symbols: 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; a; Accession Number (s): NP_001632.2; Human Gene ID(s): 328; Non-Human GeneID(s):
Immunogen	PKRGKKGAVAEDGD, is from N Terminus Reported variants represent identical protein (NP_001632.2; NP_542379.1; NP_542380.1).
Applications	Pep ELISA, WB, IHC Species Tested: Human
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	lyophilized powder of 50ug or 100ug IgG; Reconsititute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 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.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 16000.
Western Blot	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	Immunohistochemistry: In paraffin embedded Human Breast shows nuclear staining of lobular epithelial cells. Recommended concentration: 4-6µg/ml.
Reference	Reference(s): Demple B, Herman T, Chen DS. Cloning and expression of APE, the cDNA encoding the major human apurinic endonuclease: definition of a family of DNA repair enzymes. Proc Natl Acad Sci U S A. 1991 Dec 15;88(24):11450-4..PMID: 1722334->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only