Datasheet for ABIN184704

anti-APEX1 antibody (N-Term)

3 Images

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Overview

Quantity:	100 µg
Target:	APEX1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This APEX1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	APE1 / APEX1
Immunogen:	Peptide with sequence PKRGKKGAVAEDGD-C, from the N Terminus of the protein sequence according to NP_001632.2.
Sequence:	PKRGKKGAVA EDGD
Isotype:	IgG
Specificity:	Reported variants represent identical protein (NP_001632.2, NP_542379.1, NP_542380.1).
Cross-Reactivity:	Cow, Dog, Human, Pig
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Grade:	Verified

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Target Details

Target:	APEX1
Alternative Name:	APEX1 (APEX1 Products)
Background:	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
Gene ID:	328
NCBI Accession:	NP_001632
Pathways:	DNA Damage Repair, Chromatin Binding, Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Positive Regulation of Response to DNA Damage Stimulus

Application Details

Application Notes:	Immunohistochemistry: In paraffin embedded Human Breast shows nuclear staining of lobular epithelial cells. Recommended concentration: 4-6 µg/mL. Western Blot: Approx 37 kDa band observed in nuclear lysates of cell lines A431, HeLa and MCF7 (calculated MW of 35.6 kDa according to NP_001632.2, NP_542379.1 and NP_542380.1). Recommended concentration: 0.1-0.3 µg/mL. Peptide ELISA: antibody detection limit dilution 1:16000.
Comment:	**Additional validation:** This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.
Restrictions:	For Research Use only

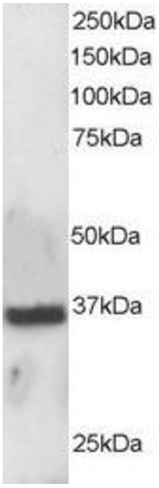
Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Minimize freezing and thawing.

Handling

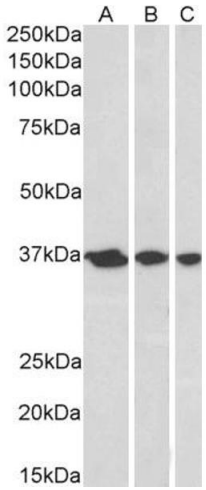
Storage:	-20 °C
Storage Comment:	Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

Images



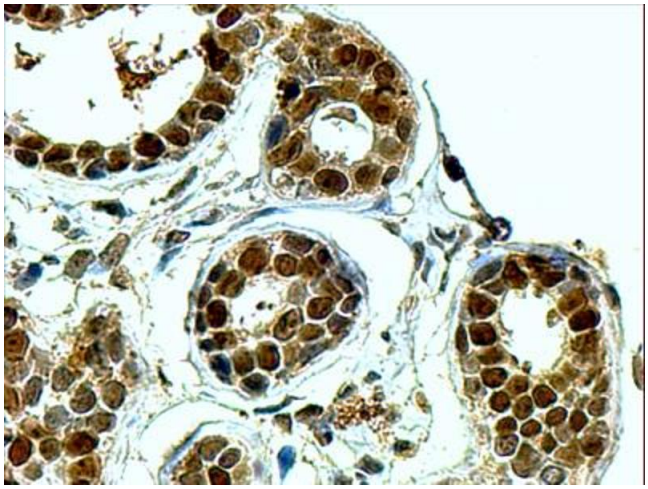
Western Blotting

Image 1. ABIN184704 staining (0.5µg/ml) of A431 lysate (RIPA buffer, 30µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Western Blotting

Image 2. ABIN184704 (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.



Immunohistochemistry

Image 3. ABIN184704 (4µg/ml) staining of paraffin embedded Human Breast. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.