Datasheet for ABIN7599449

anti-APEX2 antibody (AA 1-500)

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Overview

Quantity:	100 µg
Target:	APEX2
Binding Specificity:	AA 1-500
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APEX2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-APEX2 Antibody Picoband®
Immunogen:	E.coli-derived human APEX2 recombinant protein (Position: M1-G500).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-APEX2 Antibody Picoband® (ABIN7599449). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	APEX2
Alternative Name:	APEX2 (APEX2 Products)
Background:	Synonyms: DNA- (apurinic or apyrimidinic site) lyase 2,3.1.-.-,4.2.99.18,AP endonuclease XTH2,APEX nuclease 2,APEX nuclease-like 2,Apurinic-apyrimidinic endonuclease 2,AP endonuclease 2,APEX2,APE2, APEXL2, XTH2, Tissue Specificity: Highly expressed in brain and kidney. Weakly expressed in the fetal brain. . Background: APEX2, also called apurinic/apyrimidinic endonuclease like-2, is a member of the apurinic/apyrimidinic (AP) family of endonucleases that initiate the repair of AP sites formed by spontaneous hydrolysis of the N-glycosylic bond, mutagen-induced base release, or damaged-base excision by a DNA repair glycosylase. RT-PCR detected APEX2 expression in HeLa cells, Jurkat cells, and human kidney, brain and fetal brain tissue. The APEX2 gene is mapped to chromosome Xp11.21. APEX2 participates in both nuclear and mitochondrial base excision repair (BER) and it can play a role in processing 3-prime-damaged termini or 3-prime-mismatched nucleotides. Additionally, APEX2 displayed weaker AP site-specific and 3-prime nuclease activities compared to APEX1.
Molecular Weight:	57 kDa
Gene ID:	27301

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Flow Cytometry(Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Burkovics, P., Szukacsov, V., Unk, I., Haracska, L.Human Ape2 protein has 3-5-prime exonuclease activity that acts preferentially on mismatched base pairs.Nucleic Acids Res. 34: 2508-2515, 2006. 2. Hadi, M. Z., Ginalski, K., Nguyen, L. H., Wilson, D. M., III.Determinants in nuclease specificity of Ape1 and Ape2, human homologues of Escherichia coli exonuclease III.J. Molec. Biol. 316: 853-866, 2002. 3. Tsuchimoto, D., Sakai, Y., Sakumi, K., Nishioka, K., Sasaki, M., Fujiwara, T., Nakabeppu, Y.Human APE2 protein is mostly localized in the nuclei and to some extent in the mitochondria, while nuclear APE2 is partly associated with proliferating cell nuclear antigen.Nucleic Acids Res. 29: 2349-2360, 2001.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.