

APEX1 Polyklonaler Antikörper

Katalog-Nr.: 10323-1-AP

Allgemeine Informationen

Katalog-Nr.:	10323-1-AP	GenBank-Zugangsnummer:	BC004979	Reinigungsmethode:
Größe:	150ul , Konzentration: 800 µg/ml von Nanodrop und 367 µg/ml durch die Bradford-Methode mit BSA als Standard;	GenID (NCBI):	328	Antigen-Affinitätsreinigung
Wirt:	Kaninchen	Vollständiger Name:	APEX nuclease (multifunctional DNA repair enzyme) 1	Empfohlene Verdünnungen:
Isotyp:	IgG	Berechneté Masse:	36 kDa	WB 1:500-1:1000 IP 0.5-4.0 ug für IP und 1:500-1:1000 für WB IHC 1:20-1:200 IF 1:20-1:200
Immunogen Katalognummer:	AG0397	Beobachteté Masse:	36 kDa	

Anwendungen

Geprüfte Anwendungen:	Positivkontrollen:
IF, IHC, IP, WB, ELISA	WB : HepG2-Zellen, HEK-293-Zellen, HeLa-Zellen, K-562-Zellen, Mauslebergewebe, Raji-Zellen
Getestete Reaktivität:	IP : HepG2-Zellen,
Human, Maus, Ratte	IHC : humanes Zervixkarzinomgewebe,
Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.	IF : HepG2-Zellen,

Hintergrundinformationen

APEX1, also named as APE, APE1, HAP1 and REF-1, belongs to the DNA repair enzymes AP/ExoA family. It is a multifunctional protein that plays a central role in the cellular response to oxidative stress. The two major activities of APEX1 are in DNA repair and redox regulation of transcriptional factors. APEX nuclelease is a DNA repair enzyme having apurinic/apyrimidinic (AP) endonuclease, 3-prime,5-prime-exonuclease, DNA 3-prime repair diesterase, and DNA 3-prime-phosphatase activities. On the other hand, APEX1 also exerts reversible nuclear redox activity to regulate DNA binding affinity and transcriptional activity of transcriptional factors by controlling the redox status of their DNA-binding domain, such as the FOS/JUN AP-1 complex after exposure to IR. APEX1 is involved in calcium-dependent down-regulation of parathyroid hormone (PTH) expression by binding to negative calcium response elements (nCaREs). When acetylated at Lys-6 and Lys-7, APEX1 stimulates the YBX1-mediated MDR1 promoter activity, leading to drug resistance. It also acts as an endoribonuclease involved in the control of single-stranded RNA metabolism. It plays a role in regulating MYC mRNA turnover by preferentially cleaving in between UA and CA dinucleotides of the MYC coding region determinant (CRD). In association with NMD1, APEX1 plays a role in the rRNA quality control process during cell cycle progression. 10323-1-AP is a rabbit polyclonal antibody raised against a fusion protein corresponding to an internal region of human APEX1.

Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

Ausgewählte Validierungsdaten

