

Datasheet for ABIN6654473 **anti-APEX1 antibody**



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Overview

Quantity:	100 µg
Target:	APEX1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This APEX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant full-length human protein was used as the immunogen for the APE1 antibody.
Clone:	CPTC-APEX1-2
Isotype:	IgG1 kappa
Purification:	Purified
Purity:	Protein G affinity chromatography

Target Details

Target:	APEX1
Alternative Name:	APE1 / APEX1 (APEX1 Products)
Background:	APEX / APE1 is a multifunctional protein that plays a central role in the cellular response to

Target Details

oxidative stress. The two major activities of APEX1 in DNA repair and redox regulation of transcriptional factors. Functions as a apurinic/aprimidinic (AP) endodeoxyribonuclease in the DNA base excision repair (BER) pathway of DNA lesions induced by oxidative and alkylating agents. Patients with genetic variants in APEX1 and XRCC1 have been shown to have a higher risk of lung cancer. Elevated APEX1 levels observed in human testicular cancer may be related to relative resistance to therapy and therefore may serve as a diagnostic marker for refractory disease.

Pathways: [DNA Damage Repair](#), [Chromatin Binding](#), [Cell RedoxHomeostasis](#), [Smooth Muscle Cell Migration](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Application Notes: Optimal dilution of the APE1 antibody to be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. Western blot: 1-2 µg/mL,IF/ICC: 1-2 µg/mL,FACS (intracellular): 1-2 µg/10⁶ cells in 0.1ml,IHC (FFPE): 0.5-1 µg/mL for 30 min at RT,Prediluted IHC only format : incubate for 30 min at RT

Restrictions: For Research Use only

Handling

Buffer: 0.2 mg/mL in 1X PBS with 0.1 mg/mL BSA (US sourced) and 0.05 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store the APE1 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).