

Human/Mouse/Rat APE Antibody

Monoclonal Mouse IgG_{2B} Clone # 200913 Catalog Number: MAB1044

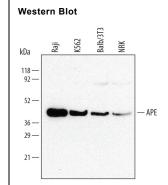
DESCRIPTION	
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat APE in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 200913
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human APE Pro2-Leu318 Accession # P27695
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

DATA



Detection of Human/Mouse/Rat APE by Western Blot. Western blot shows lysates of NRK rat normal kidney cell line, Raji human Burkitt's lymphoma cell line, K562 human chronic myelogenous leukemia cell line, and Balb/3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse/Rat APE Monoclonal Antibody (Catalog # MAB1044) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for APE at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPAR	ΚΟΙΤΑ	AND.	STOR	AGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human APE (also known as Ref-1) is the apurinic/apyrimidinic (AP) endonuclease required for efficient DNA base excision repair (BER). Following the removal of a damaged base by a DNA glycosylase, APE cleaves the AP site to allow resynthesis and ligation to complete repair. In addition, APE/Ref-1 acts as a factor that regulates the redox state of multiple transcription factors, including c-Jun, c-Fos, NF-κB, and p53.

Rev. 2/7/2018 Page 1 of 1

