

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	<i>E. coli</i> -derived recombinant human APE Pro2-Leu318 Accession # P27695
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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