Product datasheet

Anti-APEX1 DyLight 488 Conjugated Antibody

Catalog Number: *M00627-Dyl488*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-APEX1 DyLight 488 Conjugated Antibody
Gene Name	APEX1
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Species Reactivity	human
Tested Application	FCM
Contents	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Immunogen	E.coli-derived human APE1 recombinant protein (Position: P2-L318). Human APE1 shares 94% and 93% amino acid (aa) sequence identity with mouse and rat APE1, respectively.
Fluorophores	Amax=488nm; Emax=515-545nm
Conjugate	DyLight 488
Concentration	500ug/ml
Purification	protein G purified.
Dilution Ratios	Flow cytometry (FCM):1-3 μg/1x10^6 cells

Storage

At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.

Background Information

APEX1, also called apurinic endonuclease (APE), 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. The human APEX1 gene consists of 5 exons spanning 2.64 kb and exists as a single copy in the haploid genome. Using in situ hybridization, the APEX1 gene is mapped to 14q11.2-q12. The predicted APEX1 protein, which contained probable nuclear transport signals, was identified as a member of a family of DNA repair enzymes found in lower organisms. The abundance of the large form of APEX1 was increased in leiomyoma extracts relative to myometrial tissue extracts, and the large form was dominant in cell lines derived from leiomyosarcomas. The exonuclease activity of nuclear APEX1 can remove the anti-HIV nucleoside analogs AZT and D4T from the 3-prime terminus of a nick more efficiently than can cytosolic exonucleases.

Selected Validation Data

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