

## Basic Information

<b>Product Name</b>	Anti-APEX1 DyLight 550 Conjugated Antibody
<b>Gene Name</b>	APEX1
<b>Source</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Species Reactivity</b>	human
<b>Tested Application</b>	FCM
<b>Contents</b>	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
<b>Immunogen</b>	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.
<b>Fluorophores</b>	Amax=562nm; Emax=576nm
<b>Conjugate</b>	Dylight 550
<b>Concentration</b>	500ug/ml
<b>Purification</b>	protein G purified.
<b>Dilution Ratios</b>	Flow cytometry (FCM):1-3 µg/1x10 <sup>6</sup> 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

Product datasheet

**Anti-APEX1 DyLight 550 Conjugated  
Antibody**

**Catalog Number: M00627-DyI550**

**BOSTER**

antibody and ELISA experts

**BOSTER BIOLOGICAL TECHNOLOGY**

Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,  
Wuhan East Lake High-tech Development Zone

**Web:** [www.boster.com](http://www.boster.com) **Phone:** 027-67845390 **Email:** [boster@boster.com](mailto:boster@boster.com)

暂无图片