

## Anti-FEN1 Antibody Picoband® (monoclonal, 6F3F2) Fluoro550 Conjugated

Catalog Number: M01484-3-Fluoro550

### About FEN1

Flap endonuclease 1 is an enzyme that in humans is encoded by the FEN1 gene. It is mapped to 11q12.2. The protein encoded by this gene removes 5' overhanging flaps in DNA repair and processes the 5' ends of Okazaki fragments in lagging strand DNA synthesis. Direct physical interaction between this protein and AP endonuclease 1 during long-patch base excision repair provides coordinated loading of the proteins onto the substrate, thus passing the substrate from one enzyme to another. The protein is a member of the XPG/RAD2 endonuclease family and is one of ten proteins essential for cell-free DNA replication. DNA secondary structure can inhibit flap processing at certain trinucleotide repeats in a length-dependent manner by concealing the 5' end of the flap that is necessary for both binding and cleavage by the protein encoded by this gene. Therefore, secondary structure can deter the protective function of this protein, leading to site-specific trinucleotide expansions.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-FEN1 Antibody Picoband® (monoclonal, 6F3F2) Fluoro550 Conjugated  |
| Reactive Species     | Human, Mouse, Rat  |
| Application          | Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Monoclonal 6F3F2   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .   |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.   |
| Host                 | Mouse  |
| Uniprot ID           | P39748   |

### Technical Details

|                  |  |
|------------------|--|
| Immunogen        | E.coli-derived human FEN1 recombinant protein (Position: Q4-E300). |
| Cross Reactivity | No cross-reactivity with other proteins.                           |
| Isotype          | Mouse IgG1   |
| Form             | Liquid   |
| Concentration    | 0.5 mg/mL  |
| Purification     | Immunogen affinity purified.                                       |
| Conjugate        | Fluoro550  |

|                     |  |
|---------------------|--|
|                     | Excitation Wavelength: 562 nm<br>Emission Wavelength: 576 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users.         |

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