

## Rad2/FEN1 (Phospho Ser187) Rabbit pAb

CatalogNo: YP1733 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 42kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:500-2000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human Rad2/FEN1 (Phospho-Ser187)

**Specificity** This antibody detects endogenous levels of Rad2/FEN1 (Phospho-Ser187) at Human, Mouse, Rat. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):FGsPV

## Target Information

**Gene name** FEN1 RAD2

**Protein Name** Rad2/FEN1 (Phospho-Ser187)

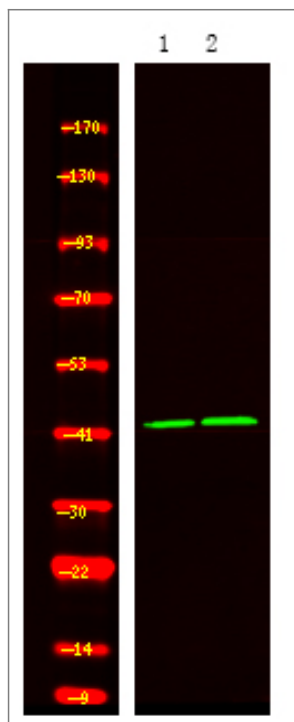
Organism	Gene ID	UniProt ID
Human	<a href="#">2237;</a>	<a href="#">P39748;</a>
Mouse		<a href="#">P39749;</a>
Rat	<a href="#">84490;</a>	<a href="#">Q5XIP6;</a>

**Cellular Localization** [Isoform 1]: Nucleus , nucleolus. Nucleus , nucleoplasm. Resides mostly in the nucleoli and relocalizes to the nucleoplasm upon DNA damage.; [Isoform FENMIT]: Mitochondrion .

**Tissue specificity** Breast ,Leukemic T-cell ,Lung ,

**Function** cofactor: Binds 2 magnesium ions per subunit. They probably participate in the reaction catalyzed by the enzyme. May bind an additional third magnesium ion after substrate binding. ,Function: Endonuclease that cleaves the 5'-overhanging flap structure that is generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment. Also possesses 5' to 3' exonuclease activity on nicked or gapped double-stranded DNA , and exhibits RNase H activity. ,PTM: Acetylated by EP300. Acetylation inhibits both endonuclease and exonuclease activity. Acetylation also reduces DNA-binding activity but does not affect interaction with PCNA or EP300. ,similarity: Belongs to the XPG/RAD2 endonuclease family. FEN1 subfamily. ,subunit: Interacts with PCNA. The C-terminal domain binds EP300. Can bind simultaneously to both PCNA and EP300. ,

## Validation Data



Western blot analysis of 1HeLa cell, 2 LPS 100ng/mL 30min treated, using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

## | Contact information

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Please scan the QR code  
to access additional  
product information:

**Rad2/FEN1**  
**(Phospho Ser187)**  
**Rabbit pAb**

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