

|                  |                                   |
|------------------|-----------------------------------|
| Catalog Number   | PA-RP 000013                      |
| Batch Number(s): | PA-B-0001-RP-RIF1                 |
| Product Name     | Rabbit anti-Human RIF1 Polyclonal |

**PRODUCT SPECIFICATION**

|                    |                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------|
| Host               | Rabbit                                                                                                     |
| Colonicity         | Polyclonal                                                                                                 |
| Subclass           | IgG                                                                                                        |
| Immunogen          | RIF1 Protein in a region between residue 364 and 414, referencing both Uniprot ID Q5UIP0 and Gene ID 55183 |
| Conjugate          | Unconjugated                                                                                               |
| Form               | Liquid                                                                                                     |
| Concentration      | 1.00 mg/mL                                                                                                 |
| Purification       | Affinity chromatography                                                                                    |
| Storage Buffer     | Phosphate Buffer Saline, 10mM, pH 7.4                                                                      |
| Preservative       | Azide                                                                                                      |
| Cryopreservative   | Glycerol                                                                                                   |
| Storage conditions | 4°C. Avoid freeze/thaw cycles                                                                              |

**APPLICATIONS**

|                                  |              |
|----------------------------------|--------------|
| Western Blotting                 | 1:250-1:1000 |
| Immunocytochemistry / Microscopy | 1:250-1:1000 |

**PRODUCT DESCRIPTION**

RIF1 regulates DNA double-strand break repair pathway choice by limiting DNA end resection. Recruited through phosphorylated 53BP1, RIF1 promotes shieldin-dependent protection and fill-in of DNA ends, favoring non-homologous end joining (NHEJ). During S/G2, BRCA1-associated mechanisms counteract this barrier, permitting MRE11/CtIP-mediated resection and homologous recombination (HR). RIF1 therefore acts primarily as a suppressor of HR initiation, not a direct HR repair factor.

|              |                        |
|--------------|------------------------|
| Uniprot ID   | <a href="#">Q5UIP0</a> |
| Gene ID      | <a href="#">55183</a>  |
| Gene Symbol  | RIF1                   |
| Gene Aliases | RIF1                   |

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