

产品名称: RFA2 (117) Rabbit Monoclonal Antibody  
产品货号: AMRe17045



## 产品概述 (Summary)

|                        |                                        |
|------------------------|----------------------------------------|
| 产品名称 (Production Name) | RFA2 (117) Rabbit Monoclonal Antibody  |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody |
| 宿主 (Host)              | Rabbit                                 |
| 应用 (Application)       | WB,IHC,ICC/IF,FC,IP                    |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat                        |

## 产品性能 (Performance)

|                     |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                                                |
| 修饰 (Modification)   | Unmodified                                                                                                                  |
| 同种型 (Isotype)       | IgG                                                                                                                         |
| 克隆 (Clonality)      | Monoclonal                                                                                                                  |
| 形式 (Form)           | Liquid                                                                                                                      |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                    |
| 储存溶液 (Buffer)       | Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein. |
| 纯化方式 (Purification) | Affinity purification                                                                                                       |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | RPA2                                                                                                                          |
| 别名 (Alternative Names) | p32; p34; REPA2; Replication factor A protein 2; Rf-A2; RFA; RP-A p32; RP-A p34; RP21C; RPA; Rpa2; RPA32; RPA34; RpLP1; RpP2; |
| 基因 ID (Gene ID)        | 6118.0                                                                                                                        |
| 蛋白 ID (SwissProt ID)   | P15927.A synthetic peptide of human RPA32/RPA2                                                                                |

## 产品应用 (Application)

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:50-1:200,ICC/IF 1:20-1:50,FC 1:100-1:200,IP 1:20-1:50 |
| 蛋白分子量 (Molecular Weight) | 29kDa                                                                       |

## 研究背景 (Background)

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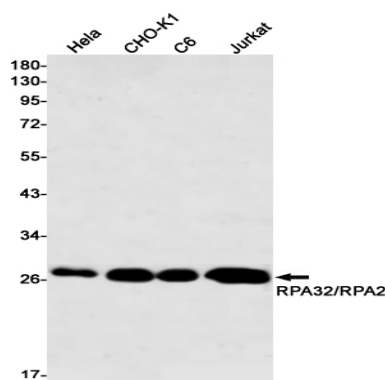


Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions. As part of the heterotrimeric replication protein A complex (RPA/RP-A), binds and stabilizes single-stranded DNA intermediates, that form during DNA replication or upon DNA stress. It prevents their reannealing and in parallel, recruits and activates different proteins and complexes involved in DNA metabolism. Thereby, it plays an essential role both in DNA replication and the cellular response to DNA damage. In the cellular response to DNA damage, the RPA complex controls DNA repair and DNA damage checkpoint activation. Through recruitment of ATRIP activates the ATR kinase a master regulator of the DNA damage response. It is required for the recruitment of the DNA double-strand break repair factors RAD51 and RAD52 to chromatin in response to DNA damage. Also recruits to sites of DNA damage proteins like XPA and XPG that are involved in nucleotide excision repair and is required for this mechanism of DNA repair. Plays also a role in base excision repair (BER) probably through interaction with UNG. Also recruits SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance.

## 研究领域 (Research Area)

Epigenetics and Nuclear Signaling

## 图片 (Image Data)



Western blot detection of RPA32/RPA2 in HeLa, CHO-K1, C6, Jurkat cell lysates using RPA32/RPA2 antibody (1:500 diluted).

## 注意事项 (Note)

For research use only .