

产品名称: 53BP1 (2B15) Rabbit Monoclonal Antibody  
产品货号: AMRe06335



## 产品概述 (Summary)

|                        |                                         |
|------------------------|-----------------------------------------|
| 产品名称 (Production Name) | 53BP1 (2B15) Rabbit Monoclonal Antibody |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody  |
| 宿主 (Host)              | Rabbit                                  |
| 应用 (Application)       | WB,IHC,ICC/IF                           |
| 种属反应性 (Reactivity)     | Human                                   |

## 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)        | TP53BP1                                                                                                |
| 别名 (Alternative Names) | Tumor suppressor p53-binding protein 1; 53 BP1; p53-binding protein 1; p53BP1; TP53BP1; p53-BP1; p202; |
| 基因 ID (Gene ID)        | 7158.0                                                                                                 |
| 蛋白 ID (SwissProt ID)   | Q12888.A synthetic peptide of human 53BP1                                                              |

## 产品应用 (Application)

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:2000-1:10000,IHC 1:50-1:200,ICC/IF 1:20-1:50 |
| 蛋白分子量 (Molecular Weight) | 214kDa                                            |

## 研究背景 (Background)

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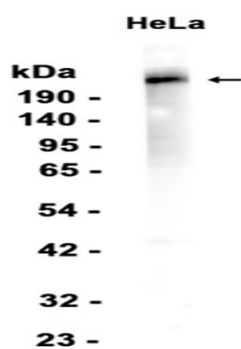


May have a role in checkpoint signaling during mitosis. Enhances TP53-mediated transcriptional activation. Plays a role in the response to DNA damage. Double-strand break (DSB) repair protein involved in response to DNA damage, telomere dynamics and class-switch recombination (CSR) during antibody genesis (PubMed:[12364621](http://www.uniprot.org/citations/12364621), PubMed:[22553214](http://www.uniprot.org/citations/22553214), PubMed:[23333306](http://www.uniprot.org/citations/23333306), PubMed:[17190600](http://www.uniprot.org/citations/17190600), PubMed:[21144835](http://www.uniprot.org/citations/21144835), PubMed:[28241136](http://www.uniprot.org/citations/28241136)). Plays a key role in the repair of double-strand DNA breaks (DSBs) in response to DNA damage by promoting non-homologous end joining (NHEJ)-mediated repair of DSBs and specifically counteracting the function of the homologous recombination (HR) repair protein BRCA1 (PubMed:[22553214](http://www.uniprot.org/citations/22553214), PubMed:[23727112](http://www.uniprot.org/citations/23727112), PubMed:[23333306](http://www.uniprot.org/citations/23333306)). In response to DSBs, phosphorylation by ATM promotes interaction with RIF1 and dissociation from NUDT16L1/TIRR, leading to recruitment to DSBs sites (PubMed:[28241136](http://www.uniprot.org/citations/28241136)). Recruited to DSBs sites by recognizing and binding histone H2A monoubiquitinated at 'Lys-15' (H2AK15Ub) and histone H4 dimethylated at 'Lys-20' (H4K20me2), two histone marks that are present at DSBs sites (PubMed:[23760478](http://www.uniprot.org/citations/23760478), PubMed:[28241136](http://www.uniprot.org/citations/28241136), PubMed:[17190600](http://www.uniprot.org/citations/17190600)). Required for immunoglobulin class-switch recombination (CSR) during antibody genesis, a process that involves the generation of DNA DSBs (PubMed:[23345425](http://www.uniprot.org/citations/23345425)). Participates in the repair and the orientation of the broken DNA ends during CSR (By similarity). In contrast, it is not required for classic NHEJ and V(D)J recombination (By similarity). Promotes NHEJ of dysfunctional telomeres via interaction with PAXIP1 (PubMed:[23727112](http://www.uniprot.org/citations/23727112)).

## 研究领域 (Research Area)

## 图片 (Image Data)

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Western blot analysis of extracts from HeLa cells using RM5231 at 1:1000.

### 注意事项 (Note)

For research use only .