产品名称: XRCC4(5C10)Mouse Monoclonal Antibody

产品货号: AMM19975



### 产品概述 (Summary)

产品名称 (Production Name) XRCC4(5C10)Mouse Monoclonal Antibody

描述 (Description) Mouse monoclonal Antibody

宿主 (Host) Mouse

**应用 (Application)** WB,IHC,ICC/IF,IP

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

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

PBS, pH 7.4, containing 0.5%protective protein, 0.02% New type preservative **储存溶液 (Buffer)** 

N as Preservative and 50% Glycerol.

**纯化方式 (Purification)** Affinity purification

#### 免疫原信息 (Immunogen)

基因名 (Gene Name) XRCC4

XRCC4; DNA repair protein XRCC4; X-ray repair cross-complementing protein **别名 (Alternative Names)** 

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基因 ID (Gene ID) 7518.0

蛋白ID (SwissProt ID) Q13426.Synthetic Peptide of XRCC4

## 产品应用(Application)

**稀释比 (Dilution Ratio)** WB 1:1000-1:2000,IHC 1:50-1:300,ICC/IF 1:100-1:200,IP 1:20-1:300

**蛋白分子量 (Molecular Weight)** 38kDa

### 研究背景 (Background)

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The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand breaks. This protein plays a role in both non-homologous end joining and the completion of V(D)J recombination. Mutations in this gene can cause short stature, microcephaly, and endocrine dysfunction (SSMED). Alternative splicing generates several transcript variants. [provided by RefSeq, Dec 2015],function:Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA ligase IV (LIG4). The LIG4-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends.,PTM:Monoubiquitinated.,PTM:Phosphorylated by PRKDC. The phosphorylation seems not to be necessary for binding to DNA. Phosphorylation by CK2 promotes interaction with APTX.,PTM:Sumoylation at Lys-210 is required for nuclear localization and recombination efficiency. Has no effect on ubiquitination.,similarity:Belongs to the XRCC4 family.,subunit:Homodimer and homotetramer in solution. The homodimer associates with LIG4, and the LIG4-XRCC4 complex associates in a DNA-dependent manner with the DNA-PK complex formed by the Ku p70/p86 dimer (G22P1/G22P2) and PRKDC. Seems to interact directly with PRKDC but not with the Ku p70/86 dimer. Interacts with XLF/Cernunnos. Interacts with APTX and APLF., tissue specificity:Widely expressed.,

#### 研究领域 (Research Area)

Non-homologous end-joining;

#### 图片 (Image Data)



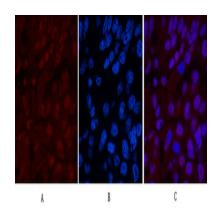
Immunohistochemical analysis of paraffin-embedded Human-breast-cancer tissue. 1,XRCC4 Monoclonal Antibody (5C10) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.

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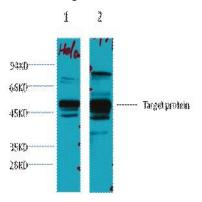
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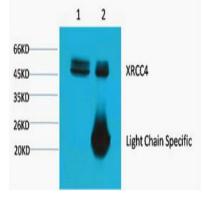




Immunofluorescence analysis of Human-liver-cancer tissue. 1,XRCC4 Monoclonal Antibody (5C10) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) Hela, 2) 293T, diluted at 1:3000.



1) Input: Hela Cell Lysate 2) IP product: IP dilute 1:200

#### 注意事项 (Note)

For research use only.