

产品名称: XRCC4 Rabbit Polyclonal Antibody
产品货号: APRab19974



产品概述 (Summary)

产品名称 (Production Name)	XRCC4 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
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)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	XRCC4
别名 (Alternative Names)	XRCC4; DNA repair protein XRCC4; X-ray repair cross-complementing protein 4
基因 ID (Gene ID)	7518.0
蛋白 ID (SwissProt ID)	Q13426.The antiserum was produced against synthesized peptide derived from human XRCC4. AA range:261-310

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	40kDa

产品名称: XRCC4 Rabbit Polyclonal Antibody
产品货号: AP Rab19974



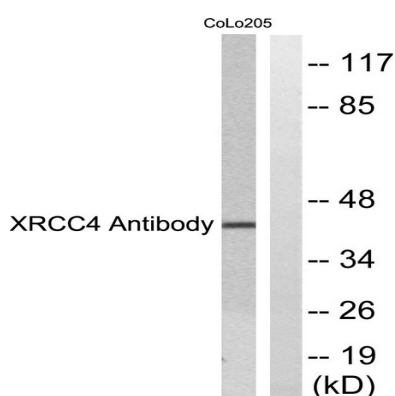
研究背景 (Background)

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,

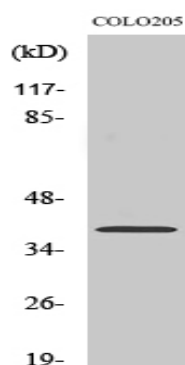
研究领域 (Research Area)

Non-homologous end-joining;

图片 (Image Data)



产品名称: XRCC4 Rabbit Polyclonal Antibody
产品货号: APRab19974



Western Blot analysis of various cells using XRCC4 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

注意事项 (Note)

For research use only .