



XRCC2 Polyclonal Antibody

Catalog No	YP-Ab-00552
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	XRCC2
Immunogen	The antiserum was produced against synthesized peptide derived from human XRCC2. AA range:211-260
Specificity	XRCC2 Polyclonal Antibody detects endogenous levels of XRCC2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DNA repair protein XRCC2;XRCC2;X-ray repair cross-complementing protein 2
Observed Band	32kD
Calculated Molecular Weight	32kD
Cell Pathway	Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome .
Tissue Specificity	Brain,Cervix carcinoma,Testis,
Function	function:Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. The BCDX2 complex binds single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA., PTM:Phosphorylated upon DNA damage, probably by ATM or ATR., similarity:Belongs to the recA family. RAD51 subfamily.,subunit:Interacts with RAD51D. Part of a BCDX2 complex consisting of RAD51B, RAD51C, RAD51D and XRCC2. Part of a complex consisting of RAD51B, RAD51C, RAD51D, XRCC2 and XRCC3. In the absence of DNA, XRCC2-RAD51D formed a multimeric ring structure. In the presence of single-stranded DNA, XRCC2-RAD51D formed a filamentous structure.,



Background

This gene encodes a member of the RecA/Rad51-related protein family that participates in homologous recombination to maintain chromosome stability and repair DNA damage. This gene is involved in the repair of DNA double-strand breaks by homologous recombination and it functionally complements Chinese hamster irs1, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents. [provided by RefSeq, Jul 2008],

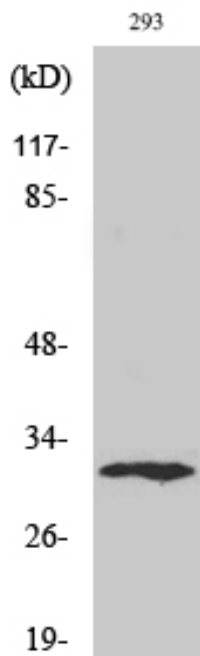
matters needing attention

Avoid repeated freezing and thawing!

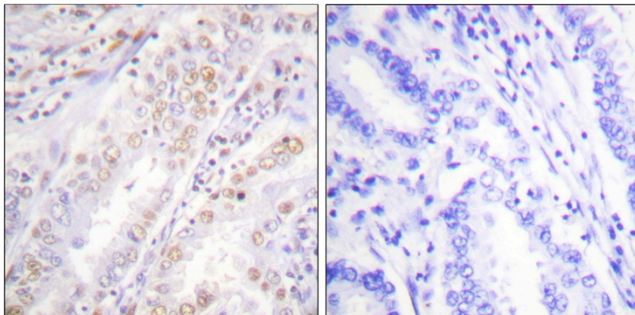
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using XRCC2 Polyclonal Antibody diluted at 1:2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using XRCC2 Antibody. The picture on the right is blocked with the synthesized peptide.