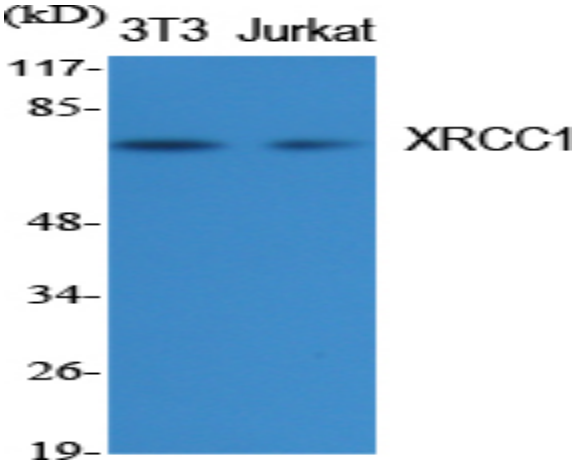
Best Tools for immunology Research

XRCC1 Polyclonal Antibody

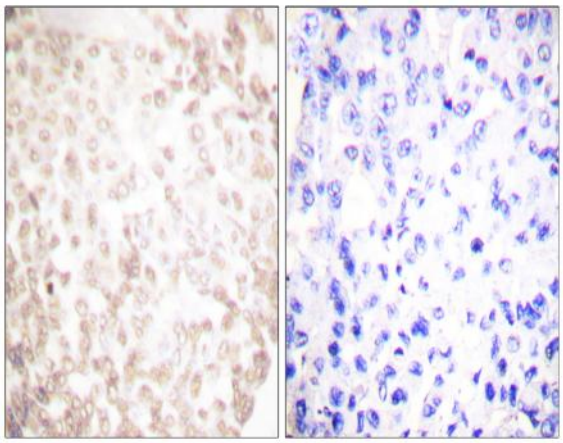
Catalog No :	YT4917
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	XRCC1
Fields :	>>Base excision repair
Gene Name :	XRCC1
Protein Name :	DNA repair protein XRCC1
Human Gene Id :	7515
Human Swiss Prot No :	P18887
Mouse Gene Id :	22594
Mouse Swiss Prot No :	Q60596
Rat Gene Id :	84495
Rat Swiss Prot No :	Q9ESZ0
Immunogen :	The antiserum was produced against synthesized peptide derived from human XRCC1. AA range:517-566
Specificity :	XRCC1 Polyclonal Antibody detects endogenous levels of XRCC1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	70kD
Cell Pathway :	Base excision repair;
Background :	The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiogenesis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq, Jul 2008],
Function :	function:Corrects defective DNA strand-break repair and sister chromatid exchange following treatment with ionizing radiation and alkylating agents.,polymorphism:Carriers of the polymorphic Gln-399 allele may be at greater risk for tobacco- and age-related DNA damage.,PTM:Phosphorylation of Ser-371 causes dimer dissociation. Phosphorylation by CK2 promotes interaction with APTX and APLF.,PTM:Sumoylated.,similarity:Contains 2 BRCT domains.,subcellular location:Accumulates at sites of DNA damage.,subunit:Homodimer. Interacts with polynucleotide kinase (PNK), DNA polymerase-beta (POLB) and DNA ligase III (LIG3). Interacts with APTX and APLF.,
Subcellular Location :	Nucleus . Moves from the nucleoli to the global nuclear chromatin upon DNA damage. .
Expression :	Expressed in fibroblasts, retinal pigmented epithelial cells and lymphoblastoid cells (at protein level).
Sort :	24361
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

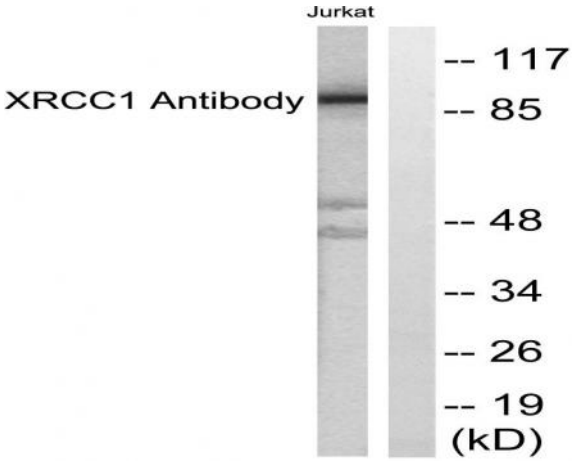
Products Images



Western Blot analysis of various cells using XRCC1 Polyclonal Antibody diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using XRCC1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using XRCC1 Antibody. The lane on the right is blocked with the synthesized peptide.