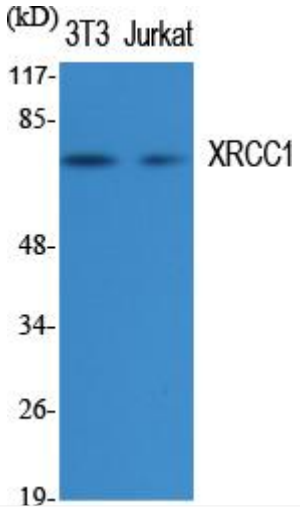
XRCC1 Monoclonal Antibody

Catalog No	YP-mAb-00551
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	XRCC1
Protein Name	DNA repair protein XRCC1
Immunogen	The antiserum was produced against synthesized peptide derived from human XRCC1. AA range:517-566
Specificity	XRCC1 Monoclonal Antibody detects endogenous levels of XRCC1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	XRCC1; DNA repair protein XRCC1; X-ray repair cross-complementing protein 1
Observed Band	70kD
Cell Pathway	Nucleus . Moves from the nucleoli to the global nuclear chromatin upon DNA damage. .
Tissue Specificity	Expressed in fibroblasts, retinal pigmented epithelial cells and lymphoblastoid cells (at protein level).
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.,
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],
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 XRCC1 Monoclonal Antibody