

## XRCC1 mouse mAb

<b>Catalog No :</b>	YM1417
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB
<b>Target :</b>	XRCC1
<b>Fields :</b>	>>Base excision repair
<b>Gene Name :</b>	xrcc1
<b>Human Gene Id :</b>	7515
<b>Human Swiss Prot No :</b>	P18887
<b>Mouse Swiss Prot No :</b>	Q60596
<b>Immunogen :</b>	Purified recombinant human XRCC1 protein fragments expressed in E.coli.
<b>Specificity :</b>	This antibody detects endogenous levels of XRCC1 and does not cross-react with related proteins.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	wb dilution 1:1000
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	82kD

**Cell Pathway :** Base excision repair;

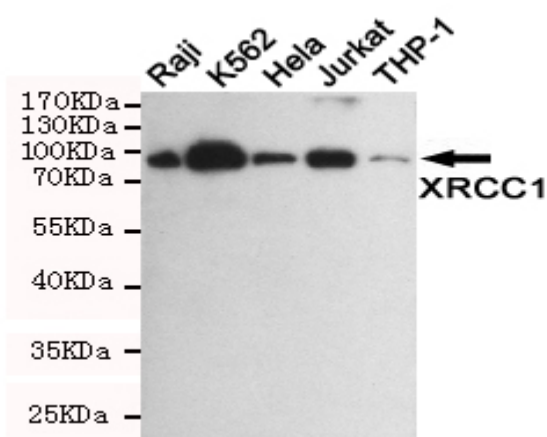
**Background :** The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis 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).

## Products Images



Western blot detection of XRCC1 in Raji, K562, HeLa, Jurkat and THP-1 cell lysates using XRCC1 mouse mAb (1:1000 diluted). Predicted band size: 82KDa. Observed band size: 82KDa.