

## XRCC3 Antibody (R30783)

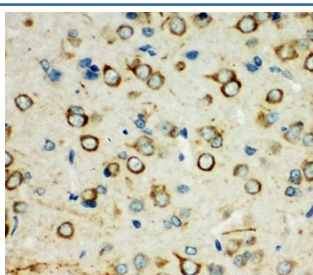
Catalog No.	Formulation	Size
R30783	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
<b>UniProt</b>	Q9CXE6
<b>Localization</b>	Nuclear and cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
<b>Limitations</b>	This XRCC3 antibody is available for research use only.



Western blot testing of XRCC3 antibody and mouse brain lysate; Predicted molecular weight: ~38kDa.



IHC-P: XRCC3 antibody testing of rat brain tissue. HIER: steamed with pH6 citrate buffer.

## Description

X-RAY repair, complementing defective, in chinese hamster, 3 is a DNA repair protein that in humans is encoded by the XRCC3 gene. It is a member of the RecA/Rad51-related protein family that participates in homologous recombination to maintain chromosome stability and repair DNA damage. XRCC3 interacts directly with RAD51 and may cooperate with RAD51 during recombinational repair. XRCC3 function is not limited to HR initiation, but extends to later stages in formation and resolution of HR intermediates, possibly by stabilizing heteroduplex DNA. The gene functionally complements Chinese hamster irs1SF, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents and is chromosomally unstable. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the XRCC3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of mouse XRCC3 (NQLLMRLMVDRTHEDD) was used as the immunogen for this XRCC3 antibody (100% rat homology).

## Storage

After reconstitution, the XRCC3 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.