

## Anti-DNA repair protein XRCC3 XRCC3 Antibody Picoband® Cy3 Conjugated

Catalog Number: PA1697-Cy3

### About Xrcc3

XRCC3 (X-RAY REPAIR, COMPLEMENTING DEFECTIVE, IN CHINESE HAMSTER, 3) is a DNA repair protein that in humans, is encoded by the XRCC3 gene. The XRCC3 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.

### Overview

Product Name	Anti-DNA repair protein XRCC3 XRCC3 Antibody Picoband® Cy3 Conjugated
Reactive Species	Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q9CXE6

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse XRCC3, identical to the related rat sequence.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	Cy3 Excitation Wavelength: 554 nm Emission Wavelength: 568 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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