

## XRCC4 Antibody

Catalog No: #33549

Package Size: #33549-1 50ul #33549-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

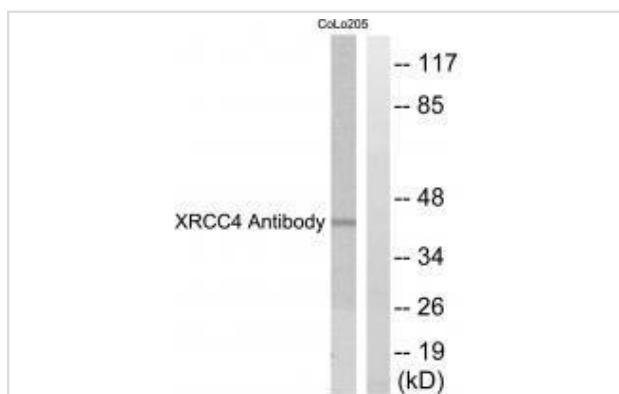
## Description

Product Name	XRCC4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total XRCC4 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from Internal of human XRCC4.
Target Name	XRCC4
Other Names	DNA-repair protein XRCC4; X-ray repair cross-complementing protein 4;
Accession No.	Swiss-Prot: Q13426NCBI Gene ID: 7518
SDS-PAGE MW	40kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:500~1:3000

## Images



Western blot analysis of extracts from COLO205 cells, using XRCC4 antibody #33549.

## Background

Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA

ligase IV (LIG4). The LIG4-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends.

Ling Chen, J. Biol. Chem., Aug 2000; 275: 26196.

JB Brome Drouet, J. Biol. Chem., Feb 2005; 280: 7060 - 7069.

Ulf Grawunder, J. Biol. Chem., Sep 1998; 273: 24708.

Ray Leber, J. Biol. Chem., Jan 1998; 273: 1794.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.