

XRCC2 Antibody

Catalog No: #33547

Package Size: #33547-1 50ul #33547-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

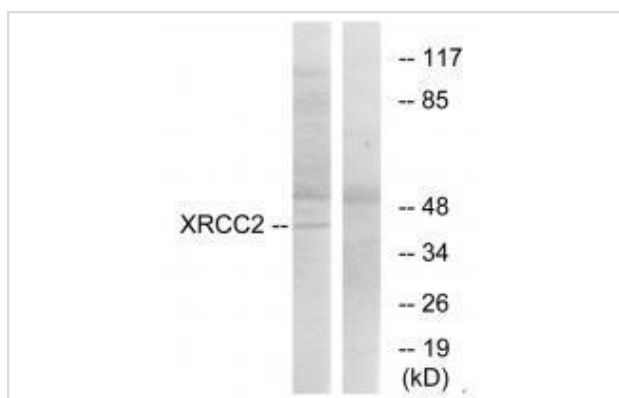
Product Name	XRCC2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total XRCC2 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human XRCC2.
Target Name	XRCC2
Other Names	X-RAY REPAIR; COMPLEMENTING DEFECTIVE; IN CHINESE HAMSTER; 2;
Accession No.	Swiss-Prot: O43543NCBI Gene ID: 7516
SDS-PAGE MW	32kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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

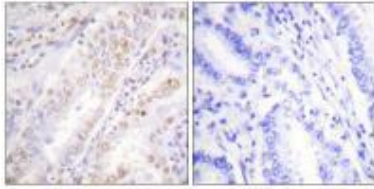
Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from 293 cells, using XRCC2 antibody #33547.

Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using XRCC2 antibody #33547.



Background

Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the Rad21 paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, BCDX2 acts downstream of BRCA2 recruitment and upstream of RAD51 recruitment. BCDX2 binds predominantly to the intersection of the four duplex arms of the Holliday junction and to junction of replication forks. The BCDX2 complex was originally reported to bind single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA.

JP Scott, *Blood*, Oct 1981; 58: 665 - 669.

G Chevalier, *Am. J. Pathol.*, Jun 1998; 152: 1563.

R Williams, *J. Biol. Chem.*, Aug 1993; 268: 18213 - 18217.

Michael R. Ladomery, *J. Biol. Chem.*, Dec 1999; 274: 36520.

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