

Rabbit XRCC1 Polyclonal Antibody | anti-XRCC1 antibody

XRCC1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320936	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

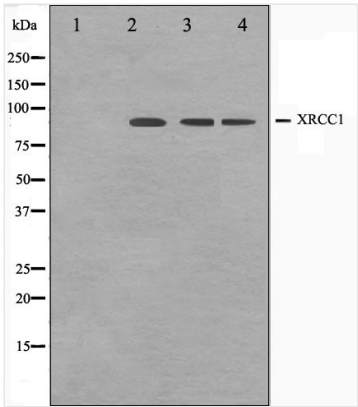
PRODUCT SYNONYMS

XRCC1; Polyclonal Antibody; XRCC1 Antibody; DNA repair protein XRCC1; RCC; X ray repair complementing defective repair in chinese hamster; X ray Repair Complementing Defective Repair in Chinese Hamster Cells; X ray repair complementing defective repair in chinese hamster cells 1; X ray repair cross complementing 1; X ray repair cross complementing protein 1; X ray repair; complementing defective; repair in Chinese hamster; X-ray repair cross-complementing protein 1; XRCC 1; Xrcc1; XRCC1_HUMAN; anti-XRCC1 antibody

PRODUCT SPECIFICATIONS

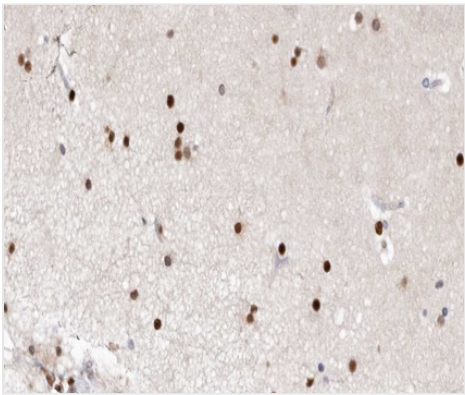
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	XRCC1 antibody detects endogenous levels of total XRCC1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	633
Applicable Applications for anti-XRCC1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human XRCC1
Subcellular Location	Nucleus. Accumulates at sites of DNA damage.
Tissue Specificity	Expressed in fibroblasts, retinal pigmented epithelial cells and lymphoblastoid cells (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis on Jurkat, COS7 and HuvEc cell lysate using XRCC1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA320936 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-XRCC1 antibody	Description: XRCC1 Corrects defective DNA strand-break repair and sister chromatid exchange following treatment with ionizing radiation and alkylating agents. Homodimer. Interacts with polynucleotide kinase (PNK), DNA polymerase-beta (POLB) and DNA ligase III (LIG3). Function: Involved in DNA single-strand break repair by mediating the assembly of DNA break repair protein complexes. Probably during DNA repair, negatively regulates ADP-ribose levels by modulating ADP-ribosyltransferase PARP1 activity. Subunit Structure: Homodimer. Interacts with polynucleotide kinase (PNK), DNA polymerase-beta (POLB) and DNA ligase III (LIG3). Interacts with APTX and APLF. Interacts with APEX1; the interaction is induced by SIRT1 and increases with the acetylated form of APEX1. Post-translational Modifications: Phosphorylation of Ser-371 causes dimer dissociation. Phosphorylation by CK2 promotes interaction with APTX and APLF. Sumoylated.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	190684675
NCBI GeneID	7515
NCBI Accession #	NP_006288.2
NCBI GenBank Nucleotide #	NM_006297.2
UniProt Accession #	P18887; Q6IBS4; Q9HCB1
Molecular Weight	Observed: 90 kDa Predicted: 70 kDa
NCBI Official Full Name	DNA repair protein XRCC1
NCBI Official Synonym Full Names	X-ray repair cross complementing 1
NCBI Official Symbol	XRCC1
NCBI Official Synonym Symbols	RCC; SCAR26
NCBI Protein Information	DNA repair protein XRCC1
UniProt Protein Name	DNA repair protein XRCC1
UniProt Gene Name	XRCC1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/xrcc1-antibody-immunohistochemistry-western-blot-elisa/320936>