

Rabbit anti-Human XRCC2 Polyclonal Antibody | anti-XRCC2 antibody

Anti-XRCC2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254566	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

XRCC2; Polyclonal Antibody; Anti-XRCC2 Antibody; Rabbit Polyclonal; XRCC2 Antibody; Rabbit PAb; Antigen Affinity Purified; X-ray repair complementing defective repair in Chinese hamster cells 2; anti-XRCC2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human XRCC2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-XRCC2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human XRCC2
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human XRCC2, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of XRCC2 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human XRCC2 polyclonal antibody (dilution ratio 1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Nucleus.



WB (Western Blot)

Anti-XRCC2 rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 32 kDa Observed band size: 32 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-XRCC2 antibody	X-Ray Repair Cross-Complementing 2 (XRCC2) is a member of the RAD51 family, which encodes proteins involved in homologous recombination repair of damaged DNA. The XRCC2 protein forms a complex (BCDX2) with three other RAD51 paralogs, RAD51B, RAD51C and RAD51D. It is believed that the BCDX2 complex mediates homologous recombination (HR) downstream of BRCA2 but upstream of RAD51, as XRCC2 is involved in the assembly of RAD51 into DNA damage foci. XRCC2 can bind DNA and, along with RAD51D, can promote homologous pairing in vitro. Consistent with its role in HR, XRCC2-deficient cells have increased levels of spontaneous chromosome instability, and exhibit hypersensitivity to DNA interstrand crosslinking agents such as mitomycin C and cisplatin as well as ionizing radiation, alkylating agents and aldehydes. XRCC2 also functions in promoting DNA replication and chromosome segregation.
References	Zhang YZ, et al. (2017) Xrcc2-deficient cells are highly sensitive to 5-fluorouracil in colorectal cancer. Cell Physiol Biochem 43 (3): 1207-1219. Kluzniak W, et al. (2019) Inherited variants in xrc2 and the risk of breast cancer. Breast Cancer Res Treat 178 (3): 657-663. Andreassen PR, et al. (2019) Xrcc2 (x-ray repair cross complementing 2). Atlas Genet Cytogenet Oncol Haematol 23 (1): 1-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885657
NCBI GeneID	7516
NCBI Accession #	NP_005422.1
NCBI GenBank Nucleotide #	NM_005431.1
UniProt Accession #	O43543; B2R925
Molecular Weight	31,956 Da
NCBI Official Full Name	DNA repair protein XRCC2
NCBI Official Synonym Full Names	X-ray repair complementing defective repair in Chinese hamster cells 2
NCBI Official Symbol	XRCC2
NCBI Protein Information	DNA repair protein XRCC2; X-ray repair cross-complementing protein 2
UniProt Protein Name	DNA repair protein XRCC2
UniProt Gene Name	XRCC2
UniProt Entry Name	XRCC2_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/xrcc2-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/254566>