

anti-Human XRCC4 Polyclonal Antibody | anti-XRCC4 antibody

Anti-XRCC4 Antibody

CATALOG # AAA46570	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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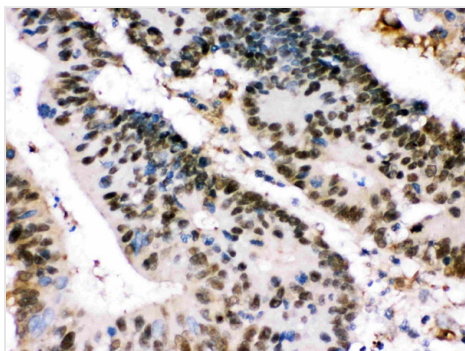
PRODUCT SYNONYMS

XRCC4; Polyclonal Antibody; Anti-XRCC4 Antibody; DNA repair protein XRCC4; DNA double strand break repair and V(D)J recombination protein XRCC4; X ray repair complementing defective repair in Chinese hamster cells 4; X ray repair cross complementing protein 4; X-ray repair cross-complementing protein 4; XRCC 4; XRCC4_HUMAN; X-ray repair complementing defective repair in Chinese hamster cells 4; anti-XRCC4 antibody

PRODUCT SPECIFICATIONS

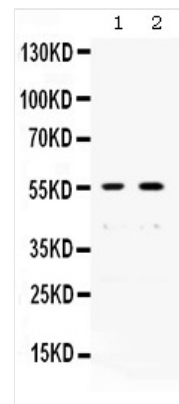
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	336
Applicable Applications for anti-XRCC4 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human XRCC4 (49-75aa ESEISQEADDNAMEKGKYVGELRKALL), different from the related mouse sequence by four amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

XRCC4 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- XRCC4 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of XRCC4 expression in SW620 whole cell lysates (lane 1) and A431 whole cell lysates (lane 1). XRCC4 at 55KD was detected using rabbit anti- XRCC4 Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-XRCC4 antibody	Description: Rabbit IgG polyclonal antibody for DNA repair protein XRCC4(XRCC4) detection. Tested with WB, IHC-P in Human. Background: DNA repair protein XRCC4, also known as X-ray repair cross-complementing protein 4 or XRCC4, is a protein that in humans is encoded by the XRCC4 gene. In addition to humans, the XRCC4 protein is also expressed in many other metazoans, fungi and in plants. The X-ray repair cross-complementing protein 4 is one of several coreproteins involved in the non-homologous end joining (NHEJ) pathway to repair DNA double strand breaks(DSBs). Since XRCC4 is the key protein that enables interaction of LigIV to damaged DNA and therefore ligation of the ends, mutations in the XRCC4 gene were found to cause embryonic lethality in mice and developmental inhibition and immunodeficiency in humans. Furthermore, certain mutations in the XRCC4 gene are associated with an increased risk of cancer.
References	1. Shao N, Jiang WY, Qiao D, Zhang SG, Wu Y, Zhang XX, Hua LX, Ding Y, Feng NH (2012). "An updated meta-analysis of XRCC4 polymorphisms and cancer risk based on 31 case-control studies". Cancer Biomark 12 (1): 37-47. 2. West CE, Waterworth WM, Jiang Q, Bray CM (October 2000). "Arabidopsis DNA ligase IV is induced by gamma-irradiation and interacts with an Arabidopsis homologue of the double strand break repair protein XRCC4".Plant J. 24 (1): 67-78.

NCBI AND UNIPROT INFORMATION

NCBI GI #	966751406
NCBI GeneID	7518
NCBI Accession #	NP_001304941.1
NCBI GenBank Nucleotide #	NM_001318012.1
UniProt Accession #	Q13426; Q9BS72; Q9UP94; A8K3X4
Molecular Weight	35,372 Da
NCBI Official Full Name	DNA repair protein XRCC4 isoform 2
NCBI Official Synonym Full Names	X-ray repair complementing defective repair in Chinese hamster cells 4
NCBI Official Symbol	XRCC4
NCBI Official Synonym Symbols	SSMED
NCBI Protein Information	DNA repair protein XRCC4
UniProt Protein Name	DNA repair protein XRCC4
UniProt Gene Name	XRCC4
UniProt Entry Name	XRCC4_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://www.aaabiotech.com/polyclonal/xrcc4-antibody-immunohistochemistry-western-blot-elisa/46570>