

## Rabbit anti-Human XRCC5 Polyclonal Antibody | anti-XRCC5 antibody

XRCC5 Antibody

|                               |                       |                            |                                                                  |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA229385</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot, ELISA</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|

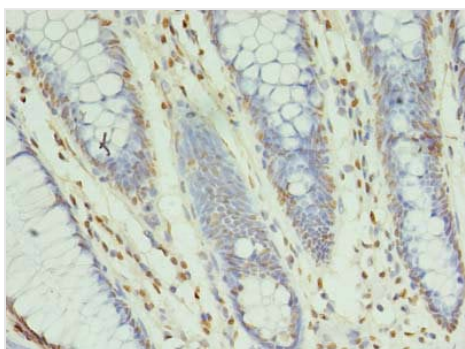
### PRODUCT SYNONYMS

XRCC5; Polyclonal Antibody; XRCC5 Antibody; X-ray repair cross-complementing protein 5 (EC:3.6.4.-); G22P2; 86 kDa subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 2; ATP-dependent DNA helicase II 80 kDa subunit; CTC box-binding factor 85 kDa subunit; CTC85; CTCBF; DNA repair protein XRCC5; Ku80; Ku86; Lupus Ku autoantigen protein p86; Nuclear factor IV; Thyroid-lupus autoantigen; TLAA; X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining); anti-XRCC5 antibody

### PRODUCT SPECIFICATIONS

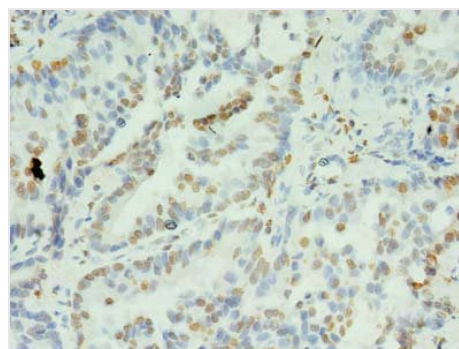
|                                                 |                                                                                                  |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                           |
| Reactivity                                      | Human                                                                                            |
| Clonality                                       | Polyclonal                                                                                       |
| Isotype                                         | IgG                                                                                              |
| Purity/Purification                             | Affinity Purified                                                                                |
| Form/Format                                     | Liquid                                                                                           |
| Sequence Length                                 | 732                                                                                              |
| Applicable Applications for anti-XRCC5 antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                             |
| Immunogen                                       | Recombinant human X-ray repair cross-complementing protein 5 protein                             |
| Conjugation                                     | Non-conjugated                                                                                   |
| Storage Buffer                                  | Preservative: 0.03% Proclin 300; Constituents: 50% Glycerol, 0.01M PBS, PH 7.4                   |
| Santa Cruz Alternative                          | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-1485 / sc-1484 / sc-9034 |
| Preparation and Storage                         | Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.         |

### IMAGES



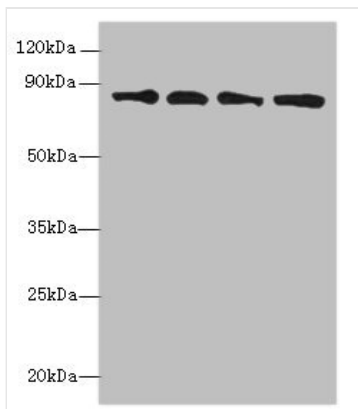
**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded human colon cancer using AAA229385 at dilution of 1:100



**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded human lung cancer using AAA229385 at dilution of 1:100



**WB (Western Blot)**  
 Western blotAll lanes: XRCC5 antibody at 6ug/mlLane 1: HepG-2 whole cell lysateLane 2: A431 whole cell lysateLane 3: 293T whole cell lysateLane 4: Hela whole cell lysateSecondaryGoat polyclonal to Rabbit IgG at 1/10000 dilutionPredicted band size: 83 kDaObserved band size: 83 kDa

### ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-XRCC5 antibody</b> | Single-stranded DNA-dependent ATP-dependent helicase. Has a role in chromosome translocation. The DNA helicase II complex binds preferentially to fork-like ends of double-stranded DNA in a cell cycle-dependent manner. It works in the 3'-5' direction. Binding to DNA may be mediated by XRCC6. Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The XRCC5/6 dimer acts as regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of the catalytic subunit PRKDC to DNA by 100-fold. The XRCC5/6 dimer is probably involved in stabilizing broken DNA ends and bringing them together. The assembly of the DNA-PK complex to DNA ends is required for the NHEJ ligation step. In association with NAA15, the XRCC5/6 dimer binds to the osteocalcin promoter and activates osteocalcin expression. The XRCC5/6 dimer probably also acts as a 5'-deoxyribose-5-phosphate lyase (5'-dRP lyase), by catalyzing the beta-elimination of the 5' deoxyribose-5-phosphate at an abasic site near double-strand breaks. XRCC5 probably acts as the catalytic subunit of 5'-dRP activity, and allows to 'clean' the termini of abasic sites, a class of nucleotide damage commonly associated with strand breaks, before such broken ends can be joined. The XRCC5/6 dimer together with APEX1 acts as a negative regulator of transcription. |
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### NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 10863945                                                               |
| NCBI GeneID                      | 7520                                                                   |
| NCBI Accession #                 | NP_066964.1                                                            |
| NCBI GenBank Nucleotide #        | NM_021141.3                                                            |
| UniProt Accession #              | P13010; Q0Z7V0; Q4VBQ5; Q53HH7; Q7M4N0; Q9UCQ0; Q9UCQ1; A8K3X5         |
| Molecular Weight                 | 82,705 Da                                                              |
| NCBI Official Full Name          | X-ray repair cross-complementing protein 5                             |
| NCBI Official Synonym Full Names | X-ray repair complementing defective repair in Chinese hamster cells 5 |
| NCBI Official Symbol             | XRCC5                                                                  |
| NCBI Official Synonym Symbols    | KU80; KUB2; Ku86; NFIV; KARP1; KARP-1                                  |
| NCBI Protein Information         | X-ray repair cross-complementing protein 5                             |
| UniProt Protein Name             | X-ray repair cross-complementing protein 5                             |
| UniProt Gene Name                | <b>XRCC5</b>                                                           |
| UniProt Synonym Gene Names       | G22P2; CTC85; CTCBF; TLAA                                              |

**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/xrcc5-antibody-immunohistochemistry-western-blot-elisa/229385>