

## Rabbit XRCC4 Polyclonal Antibody | anti-XRCC4 antibody

XRCC4 antibody - middle region

| CATALOG # | HOST   | REACTIVITY                                                               | APPLICATIONS |
|-----------|--------|--------------------------------------------------------------------------|--------------|
| AAA197728 | Rabbit | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Yeast, Zebrafish | Western Blot |

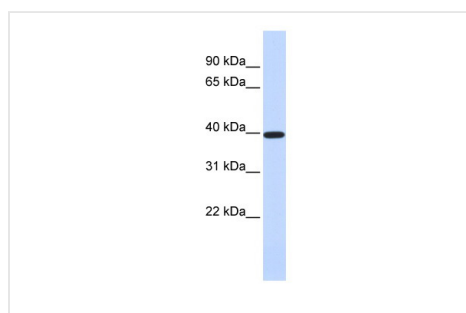
### PRODUCT SYNONYMS

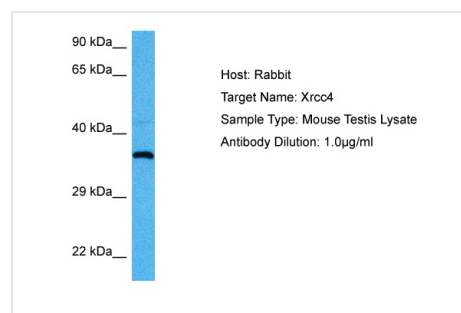
XRCC4; Polyclonal Antibody; XRCC4 antibody - middle region; anti-XRCC4 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                |
| Reactivity                                      | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Yeast, Zebrafish                                                                              |
| Clonality                                       | Polyclonal                                                                                                                                            |
| Purity/Purification                             | Affinity Purified                                                                                                                                     |
| Form/Format                                     | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                     |
| Sequence                                        | Synthetic peptide with the following region: LQ KENERLLRDW NDVQGRFEKC VSAKEALETDLYKRFILVLN EKKTKIRS                                                   |
| Sequence Length                                 | 336                                                                                                                                                   |
| Applicable Applications for anti-XRCC4 antibody | WB (Western Blot)                                                                                                                                     |
| Homology                                        | Cow: 100%; Dog: 93%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 92%; Rabbit: 92%; Rat: 92%; Yeast: 77%; Zebrafish: 85%                        |
| Immunogen                                       | The immunogen is a synthetic peptide directed towards the middle region of human XRCC4                                                                |
| Preparation and Storage                         | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES


**WB (Western Blot)**

WB Suggested Anti-XRCC4 Antibody Titration: 0.2-1 ug/ml  
ELISA Titer: 1:2500  
Positive Control: Human Placenta

**WB (Western Blot)**

Host: Mouse  
Target Name: XRCC4  
Sample Tissue: Mouse Testis  
Antibody Dilution: 1ug/ml

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-XRCC4 antibody | <p>This is a rabbit polyclonal antibody against XRCC4. It was validated on Western Blot using a cell lysate as a positive control.</p> <p>Target Description: XRCC4 functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. The non-homologous end-joining pathway is required both for normal development and for suppression of tumors. This gene functionally complements XR-1 Chinese hamster ovary cell mutant, which is impaired in DNA double-strand breaks produced by ionizing radiation and restriction enzymes.The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. The non-homologous end-joining pathway is required both for normal development and for suppression of tumors. This gene functionally complements XR-1 Chinese hamster ovary cell mutant, which is impaired in DNA double-strand breaks produced by ionizing radiation and restriction enzymes. This gene contains 8 exons, and alternative transcription initiation and alternative splicing generates several transcript variants.</p> |
| Product Categories/Family for anti-XRCC4 antibody   | Polyclonal; Developmental Biology; Signal Transduction; DNA Damage & Repair; DNA Repair; Cell Differentiation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                    |
|----------------------------------|------------------------------------|
| NCBI GI #                        | 12408647                           |
| NCBI GeneID                      | 7518                               |
| NCBI Accession #                 | NP_071801                          |
| NCBI GenBank Nucleotide #        | NM_022406                          |
| UniProt Accession #              | Q13426                             |
| Molecular Weight                 | 38kDa                              |
| NCBI Official Full Name          | DNA repair protein XRCC4 isoform 2 |
| NCBI Official Synonym Full Names | X-ray repair cross complementing 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.