

Product datasheet for **TA334754**

XRCC4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-XRCC4 antibody: synthetic peptide directed towards the middle region of human XRCC4. Synthetic peptide located within the following region: LQKENERLLRDWNDVQGRFEKCVSAKEALETDLYKRFILVLNEKKTIRS
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	38 kDa
Gene Name:	X-ray repair complementing defective repair in Chinese hamster cells 4
Database Link:	NP_071801 Entrez Gene 108138 Mouse Entrez Gene 7518 Human Q13426



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Background:

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.

Synonyms:

SSMED

Note:

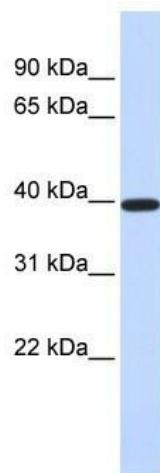
Immunogen Sequence Homology: Pig: 100%; Horse: 100%; Human: 100%; Bovine: 100%; Guinea pig: 100%; Dog: 93%; Rat: 92%; Mouse: 92%; Rabbit: 92%; Zebrafish: 85%; Yeast: 77%

Protein Families:

Druggable Genome

Protein Pathways:

Non-homologous end-joining

Product images:

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