Datasheet for ABIN2778273

anti-XRCC4 antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µL
Target:	XRCC4
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Cow, Guinea Pig, Horse, Zebrafish (Danio rerio), Dog, Rabbit, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XRCC4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human XRCC4
Sequence:	LQKENERLLR DWNDVQGRFE KCVSAKEALE TDLYKRFILV LNEKKTKIRS
Predicted Reactivity:	Cow: 100%, Dog: 93%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 92%, Rabbit: 92%, Rat: 92%, Yeast: 77%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against XRCC4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	XRCC4

Target Details

Alternative Name:	XRCC4 (XRCC4 Products)
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. Alias Symbols: - Protein Interaction Partner: BIN1, FAM9B, ASTE1, XRCC4, LIG4, PNKP, PRKDC, CSNK2A1, VPS41, NUDT21, CWC27, DENR, USP7, SRP54, DDX5, APTX, ERG, SUMO2, UBC, CALM1, XRCC5, XRCC6, SETMAR, AHNAK, CAAP1, IFFO1, APLF, CHD3, NHEJ1, VIM, GZMB, ACTN1, NBN, Protein Size: 336
Molecular Weight:	38 kDa
Gene ID:	7518
NCBI Accession:	NM_022406, NP_071801
UniProt:	Q13426
Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response

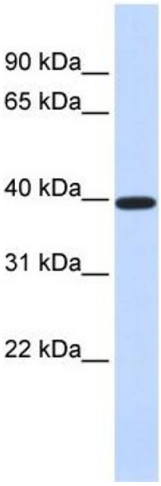
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 336 AA
Restrictions:	For Research Use only

Handling

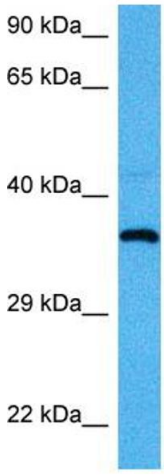
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

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



Host: Rabbit
Target Name: Xrcc4
Sample Type: Mouse Testis Lysate
Antibody Dilution: 1.0µg/ml

Western Blotting

Image 2. Host: Mouse Target Name: XRCC4 Sample Tissue: Mouse Testis Antibody Dilution: 1ug/ml