

Datasheet for ABIN3044235
anti-XRCC5 antibody (C-Term)

6 Images



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Overview

Quantity:	100 µg
Target:	XRCC5
Binding Specificity:	AA 648-662, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XRCC5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for X-ray repair cross-complementing protein 5(XRCC5) detection. Tested with WB, IHC-P, ICC in Human.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Ku80(648-662aa KFSEEQRFNNFLKAL).
Sequence:	KFSEEQRFNN FLKAL
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for X-ray repair cross-complementing protein 5(XRCC5) detection. Tested with WB, IHC-P, ICC in Human. Gene Name: X-ray repair complementing defective repair in Chinese hamster cells 5(double-

Product Details

	strand-break rejoining)
	Protein Name: X-ray repair cross-complementing protein 5
Purification:	Immunogen affinity purified.

Target Details

Target:	XRCC5
Alternative Name:	XRCC5 (XRCC5 Products)

Background: XRCC5(X-ray Repair, Complementing Defective, In Chinese Hamster, 5), also known as Ku80 or Ku86, is a protein that in humans, is encoded by the XRCC5 gene. The XRCC5 gene encodes the 80-kD subunit of the Ku autoantigen, a heterodimer which contributes to genomic integrity through its ability to bind DNA double-strand breaks and facilitate repair by the nonhomologous end joining(NHEJ) pathway. The XRCC5 gene is mapped to 2q35. Human colon cancer cells heterozygous for Ku86 are haploinsufficient with an increase in polyploid cells, a reduction in cell proliferation, elevated p53 levels, and a slight hypersensitivity to ionizing radiation. Functional inactivation of the second Ku86 allele results in cells with a drastically reduced doubling time. The Ku86 locus is essential in human somatic tissue culture cells by experiments demonstration. A rare microsatellite polymorphism in XRCC5 is associated with cancer in patients of varying radiosensitivity.

Synonyms: 86 kDa subunit of Ku antigen antibody|ATP dependent DNA helicase 2 subunit 2 antibody|ATP dependent DNA helicase II 80 kDa subunit antibody|ATP dependent DNA helicase II 86 Kd subunit antibody|ATP dependent DNA helicase II antibody|ATP-dependent DNA helicase 2 subunit 2 antibody|ATP-dependent DNA helicase II 80 kDa subunit antibody|CTC box binding factor 85 kDa antibody|CTC box-binding factor 85 kDa subunit antibody|CTC85 antibody|CTCBF antibody|DNA repair protein XRCC5 antibody|KARP 1 antibody|KARP1 antibody|Ku 80 antibody|Ku autoantigen 80 kDa antibody|Ku80 antibody|Ku86 antibody|Ku86 autoantigen related protein 1 antibody|KUB 2 antibody|KUB2 antibody|Lupus Ku autoantigen protein p86 antibody|NFIV antibody|Nuclear factor IV antibody|Thyroid lupus autoantigen antibody|Thyroid-lupus autoantigen antibody|TLAA antibody|X ray repair complementing defective repair in Chinese hamster cells 5(double strand break rejoining) antibody|X-ray repair complementing defective repair in Chinese hamster cells 5(double-strand-break rejoining) antibody|X-ray repair cross-complementing protein 5 antibody|Xray repair complementing defective repair in Chinese hamster cells 5 antibody|XRCC 5 antibody|XRCC5 antibody|XRCC5_HUMAN antibody

Target Details

UniProt:	P13010
Pathways:	DNA Damage Repair

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.
Restrictions:	For Research Use only

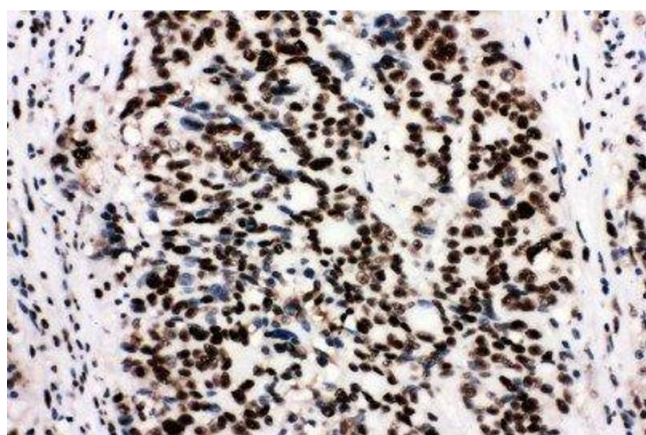
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months



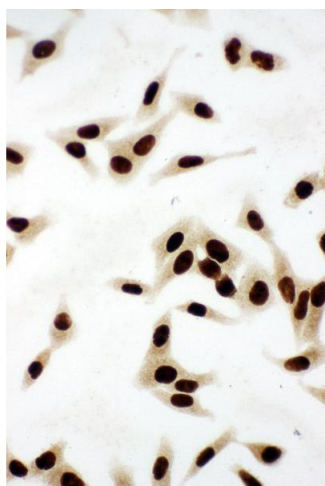
Immunohistochemistry

Image 1. Anti-Ku80 antibody, ICC ICC: HELA Cell



Immunohistochemistry

Image 2. Anti-Ku80 antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue



Immunohistochemistry

Image 3. Anti-Ku80 antibody, ICC ICC: HELA Cell

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3044235.