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Datasheet for ABIN968493 anti-XRCC5 antibody (AA 103-315)

4	Images
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3 Publications



Overview

Quantity:	50 µg
Target:	XRCC5
Binding Specificity:	AA 103-315
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This XRCC5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Ku80 aa. 103-315
Clone:	7-Ku80
Isotype:	lgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity
	chromatography.

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Target Details	
Target:	XRCC5
Alternative Name:	Ku80 (XRCC5 Products)
Background:	DNA-dependent protein kinase (DNA-PK) is a trimeric enzyme that contains a catalytic subunit
	of 350 kDa (DNA-PKcs) and a heterodimeric regulatory subunit of 70 kDa (Ku70) and 86 kDa
	(Ku80). DNA-PKcs is inactive alone and depends on the regulatory subunit for subcellular
	localization and kinase activity. The DNA-PKcs/Ku70/Ku80 complex is involved in V(D)J
	recombination and DNA double-stranded break repair. Ku70 and Ku80 are abundant nuclear
	DNA-binding proteins. Besides functioning in a complex with DNA-PKcs, Ku proteins may act in
	multiple cellular processes including transcriptional regulation, ATPase and helicase activity,
	alteration in chromatin structure, cell cycle regulation, and maintenance of telomere length. In
	rat fibroblasts, Ku80 overexpression leads to hypermethylation and silencing of metallothionein
	gene expression. Ku70-/- and Ku80-/- cells are less resistant to anticancer drug-induced
	apoptosis, suggesting a role for Ku proteins in the prevention of apoptotic signaling. Thus, Ku70
	and Ku80 may have multiple roles during DNA transcription, repair, and maintenance depending
	on the protein interactions that are involved.
Molecular Weight:	80 kDa
Pathways:	DNA Damage Repair

Application Details

Comment:	Related Products: ABIN968533, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Concentration:	250 μg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

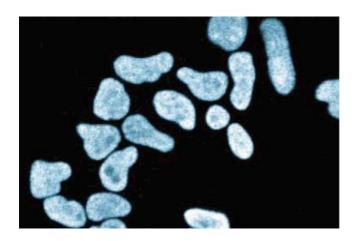
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Kim, Kim, Han, Jeong, Chung, Kang, Li: "Ku autoantigen affects the susceptibility to anticancer drugs." in: **Cancer research**, Vol. 59, Issue 16, pp. 4012-7, (1999) (PubMed).

Majumder, Ghoshal, Li, Jacob: "Hypermethylation of metallothionein-I promoter and suppression of its induction in cell lines overexpressing the large subunit of Ku protein." in: **The Journal of biological chemistry**, Vol. 274, Issue 40, pp. 28584-9, (1999) (PubMed).

Smith, Jackson: "The DNA-dependent protein kinase." in: **Genes & development**, Vol. 13, Issue 8 , pp. 916-34, (1999) (PubMed).

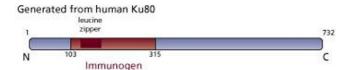
Images

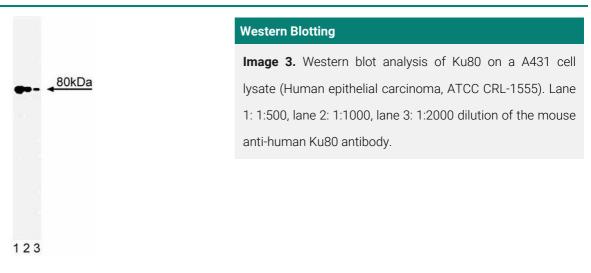


Immunofluorescence

Image 1. Immunofluorescence staining of HeLa cells (Human cervical epitheloid carcinoma, ATCC CCL-2.2).

Image 2.





Please check the product details page for more images. Overall 4 images are available for ABIN968493.