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## Datasheet for ABIN967265 anti-XRCC4 antibody (C-Term, sumoLys210)

3 Publications



#### Overview

Quantity:	0.1 mg
Target:	XRCC4
Binding Specificity:	C-Term, sumoLys210
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC)

### Product Details

Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to
	C-residues of human XRCC4(X-ray repair cross-complementing protein 4)
	Note: Antigen containing K210 amino group with the SUMO1 c-terminal 7-mer peptide bound:
	YQEQTGG

#### Target Details

Target:	XRCC4
Alternative Name:	XRCC4 (XRCC4 Products)
Background:	XRCC4 (X-ray repair cross-complementing protein 4) is involved in DNA nonhomologous end
	joining (NHEJ) required for double-strand break repair and V(D)J recombination. XRCC4 binds
	to DNA and to DNA ligase IV (LIG4). The LIG4-XRCC4 complex is responsible for the NHEJ
	ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4
	complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase

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### Target Details

Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response
	required for nuclear localization and recombination efficiency. It has no effect on ubiquitination.
	interacts with XLF/Cernunnos. Interacts with APTX and APLF. Sumoylation at Lys-210 is
	and PRKDC. XRCC4 seems to interact directly with PRKDC but not with the Ku p70/86 dimer. It
	dependent manner with the DNA-PK complex formed by the Ku p70/p86 dimer (G22P1/G22P2)
	The homodimer associates with LIG4, and the LIG4-XRCC4 complex associates in a DNA-
	complex DNA-PK to these DNA ends. XRCC4 is a homodimer and homotetramer in solution.

Application Details	
Restrictions:	For Research Use only
Handling	
Storage:	4 °C
Publications	
Product cited in:	Durkin, Guo, Fryrear, Mihaylova, Gupta, Belgnaoui, Haoudi, Kupfer, Semmes: "HTLV-1 Tax
	oncoprotein subverts the cellular DNA damage response via binding to DNA-dependent protein
	kinase." in: The Journal of biological chemistry, Vol. 283, Issue 52, pp. 36311-20, (2008) (
	PubMed).
	Huston, Lynch, Mohamed, Collins, Hill, MacLeod, Krause, Baillie, Houslay: "EPAC and PKA allow
	cAMP dual control over DNA-PK nuclear translocation." in: Proceedings of the National
	Academy of Sciences of the United States of America, Vol. 105, Issue 35, pp. 12791-6, (2008)

(PubMed).