

Datasheet for ABIN3044561 anti-XRCC4 antibody (N-Term)

2 Images



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100 μg	
XRCC4	
AA 49-75, N-Term	
Human	
Rabbit	
Polyclonal	
This XRCC4 antibody is un-conjugated	
Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Rabbit IgG polyclonal antibody for DNA repair protein XRCC4(XRCC4) detection. Tested with WB, IHC-P in Human.	
A synthetic peptide corresponding to a sequence at the N-terminus of human XRCC4 (49-75aa ESEISQEADDMAMEKGKYVGELRKALL), different from the related mouse sequence by four amino acids.	
ESEISQEADD MAMEKGKYVG ELRKALL	
IgG	
No cross reactivity with other proteins.	
Rabbit IgG polyclonal antibody for DNA repair protein XRCC4(XRCC4) detection. Tested with	

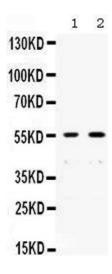
Product Details

Troduct Details		
	Protein Name: DNA repair protein XRCC4	
Purification:	Immunogen affinity purified.	
Target Details		
Target:	XRCC4	
Alternative Name:	XRCC4 (XRCC4 Products)	
Background:	DNA repair protein XRCC4, also known as X-ray repair cross-complementing protein 4 or	
	XRCC4, is a protein that in humans is encoded by the XRCC4 gene. In addition to humans, the	
	XRCC4 protein is also expressed in many other metazoans, fungi and in plants. The X-ray repair	
	cross-complementing protein 4 is one of several coreproteins involved in the non-homologous	
	end joining (NHEJ) pathway to repair DNA double strand breaks(DSBs). Since XRCC4 is the key	
	protein that enables interaction of LigIV to damaged DNA and therefore ligation of the ends,	
	mutations in the XRCC4 gene were found to cause embryonic lethality in mice and	
	developmental inhibition and immunodeficiency in humans. Furthermore, certain mutations in	
	the XRCC4 gene are associated with an increased risk of cancer.	
	Synonyms: DNA double strand break repair and V(D)J recombination protein XRCC4	
	antibody DNA repair protein XRCC4 antibody X ray repair complementing defective repair in	
	Chinese hamster cells 4 antibody X ray repair cross complementing protein 4 antibody X-ray	
	repair cross-complementing protein 4 antibody XRCC 4 antibody XRCC4	
	antibody XRCC4_HUMAN antibody	
Gene ID:	7518	
UniProt:	Q13426	
Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response	
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.	
	formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested.	

Application Details

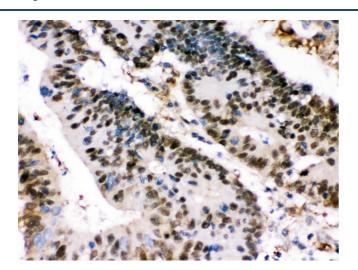
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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.	
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.	
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Images



Western Blotting

Image 1. Western blot analysis of XRCC4 expression in SW620 whole cell lysates (lane 1) and A431 whole cell lysates (lane 1). XRCC4 at 55KD was detected using rabbit anti- XRCC4 Antigen Affinity purified polyclonal antibody at 0.5 $\mu g/mL$. The blot was developed using chemiluminescence (ECL) method



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. XRCC4 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- XRCC4 Antigen Affinity purified polyclonal antibody at 1 μg/mL. The immunohistochemical section was developed using SABC method