

Datasheet for ABIN2856695
anti-XRCC4 antibody (C-Term)

3 Images

2 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	XRCC4
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XRCC4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human XRCC4. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Cow (Bovine)
Cross-Reactivity (Details):	Mouse (86 %), Rat (86 %), Bovine (93 %)
Characteristics:	Rabbit Polyclonal antibody to XRCC4 (X-ray repair complementing defective repair in Chinese hamster cells 4) XRCC4 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	XRCC4
Alternative Name:	XRCC4 (XRCC4 Products)
Background:	<p>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. Alternative transcription initiation and alternative splicing generates several transcript variants.</p> <p>Cellular Localization: Nucleus</p>
Molecular Weight:	38 kDa
Gene ID:	7518
Pathways:	DNA Damage Repair , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	<p>Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:3000*</p>
Comment:	Positive Control: Jurkat , K562 , HL-60
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

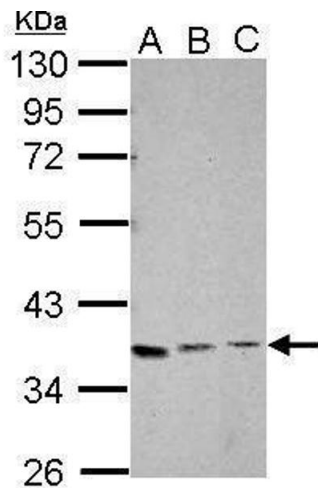
Handling

Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

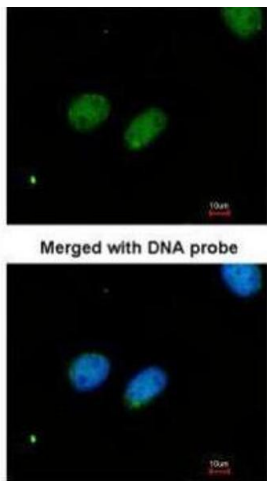
Product cited in:	Lin, Kiihl, Suhail, Liu, Chou, Kuang, Lu, Khor, Lin, Bader, Irizarry, Boeke: "Functional dissection of lysine deacetylases reveals that HDAC1 and p300 regulate AMPK." in: Nature , Vol. 482, Issue 7384, pp. 251-5, (2012) (PubMed).
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Images



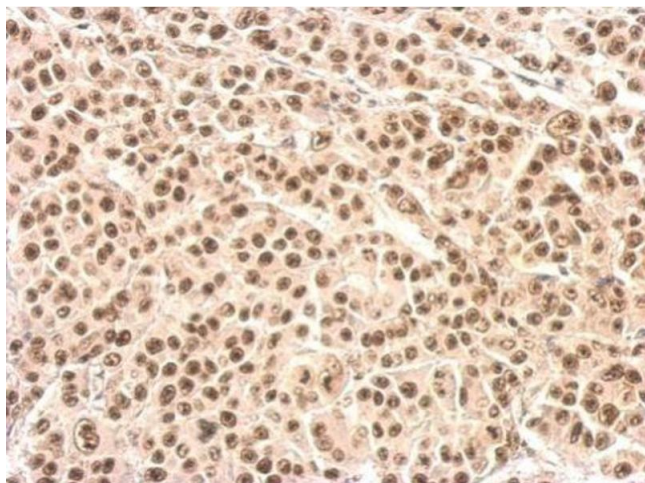
Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: Jurkat B: K562 C: HL-60 10% SDS PAGE antibody diluted at 1:1000



Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using XRCC4, antibody at 1:200 dilution.



Immunohistochemistry

Image 3. IHC-P Image XRCC4 antibody detects XRCC4 protein at nucleus on HBL435 xenograft by immunohistochemical analysis. Sample: Paraffin-embedded HBL435 xenograft. XRCC4 antibody , dilution: 1:500.