Datasheet for ABIN2779300

anti-RAD17 antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	RAD17
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAD17 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human RAD17
Sequence:	PTQATVPETW SLPLSQNSAS ELPASQPQPF SAQGDMEENI IIEDYESDGT
Predicted Reactivity:	Cow: 83%, Dog: 75%, Human: 100%, Mouse: 75%, Pig: 83%, Rat: 75%
Characteristics:	This is a rabbit polyclonal antibody against RAD17. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	RAD17
Alternative Name:	RAD17 (RAD17 Products)

Target Details

Background:	RAD17 is highly similar to the gene product of Schizosaccharomyces pombe rad17, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. This protein binds to chromatin prior to DNA damage and is phosphorylated by ATR after the damage. This protein recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation.The protein encoded by this gene is highly similar to the gene product of Schizosaccharomyces pombe rad17, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. This protein binds to chromatin prior to DNA damage and is phosphorylated by ATR after the damage. This protein recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation. The phosphorylation of this protein is required for the DNA-damage-induced cell cycle G2 arrest, and is thought to be a critical early event during checkpoint signaling in DNA-damaged cells. Eight alternatively spliced transcript variants of this gene, which encode four distinct proteins, have been reported. Alias Symbols: CCYC, HRAD17, R24L, RAD17Sp, Rad24, RAD24, RAD17SP Protein Interaction Partner: USP20, UBC, PRMT6, CBX7, CBX6, RAD9A, CDH1, ATR, RFC1, H2AFX, FOXO3, ATM, CLSPN, ALK, RAD9B, POLE, HUS1, RAD1, NHP2L1, MCM7, RFC4, RFC5, RFC3, RFC2, POLE4, POLE3, POLE2, PRKDC, Protein Size: 584
Molecular Weight:	66 kDa
Gene ID:	5884
NCBI Accession:	NM_133341, NP_579919

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 584 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific

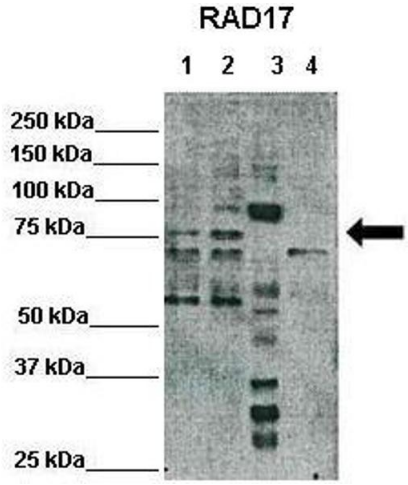
Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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 freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

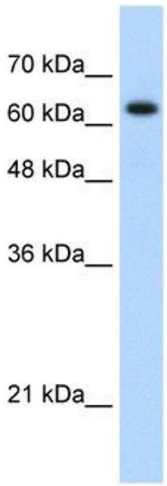
Product cited in:	Lazrek, Goffard, Schanen, Karquel, Bocket, Lion, Devaux, Hedouin, Gosset, Hober: "Detection of hepatitis C virus antibodies and RNA among medicolegal autopsy cases in Northern France." in: **Diagnostic microbiology and infectious disease**, Vol. 55, Issue 1, pp. 55-8, (2006) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-RAD17 Antibody Positive Control: Lane1: 25ug Hela lysate, Lane2: 25ug HEK293T lysate, Lane3: 25ug Xenopus laevis egg extract, Lane4: 25ug mouse embryonic stem cells lysate Primary Antibody Dilution : 1:500 Secondary Antibody : Anti-rabbit-HRP Secondry Antibody Dilution : 1:3000 Submitted by: Domenico Maiorano, Institute of Human Genetics, CNRS



Western Blotting

Image 2. WB Suggested Anti-RAD17 Antibody Titration: 1.25ug/ml ELISA Titer: 1:62500 Positive Control: Jurkat cell lysate RAD17 is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells