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Datasheet for ABIN4913429  
**anti-RAD50 antibody (AA 817-872) (Biotin)**

### Overview

Quantity:	100 µL
Target:	RAD50
Binding Specificity:	AA 817-872
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAD50 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human RAD50
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Cow,Sheep,Horse,Rabbit
Purification:	Purified by Protein A.

### Target Details

Target:	RAD50
Alternative Name:	RAD50 ( <a href="#">RAD50 Products</a> )

## Target Details

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Background:	<p>Synonyms: DNA repair protein RAD50, RAD50, hRAD50</p> <p>Background: Component of the MRN complex, which plays a central role in double-strand break (DSB) repair, DNA recombination, maintenance of telomere integrity and meiosis. The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11A. RAD50 may be required to bind DNA ends and hold them in close proximity. This could facilitate searches for short or long regions of sequence homology in the recombining DNA templates, and may also stimulate the activity of DNA ligases and/or restrict the nuclease activity of MRE11A to prevent nucleolytic degradation past a given point (PubMed:11741547, PubMed:9590181, PubMed:9705271, PubMed:9651580). The complex may also be required for DNA damage signaling via activation of the ATM kinase (PubMed:15064416). In telomeres the MRN complex may modulate t-loop formation (PubMed:10888888).</p>
Gene ID:	10111
UniProt:	<a href="#">Q92878</a>
Pathways:	<a href="#">DNA Damage Repair</a> , <a href="#">Protein targeting to Nucleus</a>

## Application Details

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Application Notes:	WB 1:300-5000 IHC-P 1:200-400 IHC-F 1:100-500
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C

## Handling

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Storage Comment: Store at -20°C for 12 months.

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Expiry Date: 12 months