IDENTiFYN®

CERTIFICATE OF ANALYSIS

Catalog Number	PA-RP 000007
Batch Number(s):	PA-B-0001-RP-Rad50
Product Name	Rabbit anti-Human RAD50 Polyclonal

PRODUCT SPECIFICATION

Host	Rabbit
Colonality	Polyclonal
Subclass	IgG
Immunogen	Peptide Sequences between Residues 1286 - 1335, referencing Uniprot Q92878 and Gene ID 101111
Conjugate	Unconjugated
Form	Liquid
Concentration	1.0 mg/mL
Purification	Affinity chromatography
Storage Buffer	Phosphate Buffer Saline, 10mM, pH 7.4
Preservative	Azide
Cryopreservative	Glycerol
Storage conditions	4°C. Avoid freeze/thaw cycles

APPLICATIONS

Western Blotting	1:250-1:1000
Immunocytochemistry / Microscopy	1:250-1:1000

PRODUCT DESCRIPTION

Rad50 plays a key role in recognizing and processing double-strand breaks during DNA repair as part of the MRN complex (Mre11-Rad50-Nbs1). It aids in tethering and bridging DNA ends, and in its homodimeric state, it has ATPase domains that facilitate the alignment of broken DNA strands. Rad50 is also involved in telomere maintenance. Dysregulation or mutations in Rad50 or the MRN complex can result in genomic instability.

Uniprot ID	Q92878
Gene ID	10111
Gene Symbol	RAD50
Gene Aliases	DNA repair protein RAD50; hRad50; NBSLD; RAD50 homolog, double strand break repair protein; RAD502

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