

Rad50 Rabbit mAb

Catalog No: #52037

Package Size: #52037-1 50ul #52037-2 100ul

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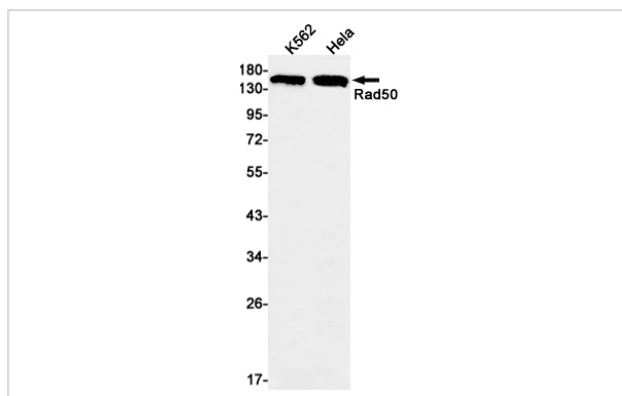
Description

Product Name	Rad50 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S05-5H6
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse
Immunogen Description	A synthetic peptide of human Rad50
Conjugates	Unconjugated
Modification	Unmodification
Other Names	NBSLD; RAD502; hRad50
Accession No.	Swiss-Prot:Q92878GeneID:10111
Uniprot	Q92878
GeneID	10111
Calculated MW	Calculated MW: 154 kDa; Observed MW: 154 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/2000

Images



Western blot detection of Rad50 in K562, HeLa cell lysates using Rad50 Rabbit mAb (1:1000 diluted). Predicted band size: 154 kDa. Observed band size: 154 kDa.

Background

Swiss-Prot Acc.Q92878.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 MRE11. 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 MRE11 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).

Note: This product is for in vitro research use only