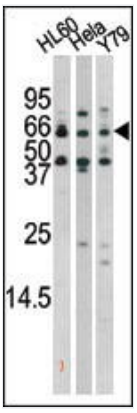
RAD9 Antibody – Rabbit Polyclonal

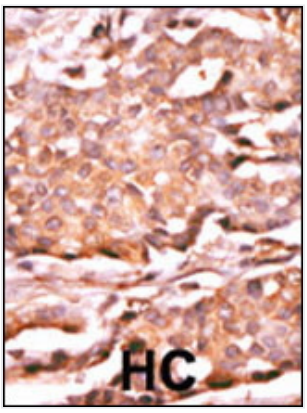
PRODUCT OVERVIEW

Product Name	Rad9, Polyclonal Antibody
Full Product Name	Rad9, Phosphorylated (Ser272) (RAD9A, Cell Cycle Checkpoint Control Protein RAD9A, hRAD9, DNA Repair Exonuclease Rad9 Homolog A) (APC)
Product Gene Name	anti-Rad9 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human Rad9 when phosphorylated at Ser272.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Do not freeze APC conjugates. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	42,547 Da
OMIM	603761
3D Structure	ModBase 3D Structure for Q99638
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser272 of human Rad9 (KLH).
Conjugate	APC
Antigen Modification	Phosphorylated
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-Rad9 antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-Rad9 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-Rad9 antibody	IHC: 1:10-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-Rad9 antibody	MBS6496453 is an antibody targeting Rad9. Also known as Rad9, Phosphorylated (Ser272) (RAD9A, Cell Cycle Checkpoint Control Protein RAD9A, hRAD9, DNA Repair Exonuclease Rad9 Homolog A) (APC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-Rad9 antibody	1. Maniwa, Y., et al., Cancer 103(1):126-132 (2005). 2. Wang, W., et al., Proc. Natl. Acad. Sci. USA 101(48):16762-16767 (2004). 3. Lindsey-Boltz, L.A., et al., (er) Nucleic Acids Res. 32(15):4524-4530 (2004). 4. Toueille, M., et al., (er) Nucleic Acids Res. 32(11):3316-3324 (2004). 5. Loegering, D., et al., J. Biol. Chem. 279(18):18641-18647 (2004).

Other Notes	Small volumes of anti-Rad9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-Rad9 antibody
The anti-Phospho-Rad9-S272 Pab is used in Western blot to detect Phospho-Rad9-S272 in HL60 (left), Hela(middle), and Y79(right)tissue lysates.



Immunohistochemistry (IHC) of anti-Rad9 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rad9. It may not necessarily be applicable to this product.

NCBI GI #	4759022
NCBI GeneID	5883
NCBI Accession #	NP_004575
UniProt Primary Accession #	Q99638
UniProt Secondary Accession #	Q6FI29; Q96C41; B2RCZ8
UniProt Related Accession #	Q99638
GenBank Nucleotide #	NM_004584
NCBI Official Full Name	cell cycle checkpoint control protein RAD9A isoform 1
NCBI Official Synonym Full Names	RAD9 homolog A (S. pombe)
NCBI Official Symbol	RAD9A
NCBI Official Synonym Symbols	RAD9
UniProt Protein Name	Cell cycle checkpoint control protein RAD9A
UniProt Synonym Protein Names	DNA repair exonuclease rad9 homolog A
Protein Family	DNA repair protein
UniProt Gene Name	RAD9A
UniProt Synonym Gene Names	hRAD9
UniProt Entry Name	RAD9A_HUMAN
NCBI Protein Information	cell cycle checkpoint control protein RAD9A; DNA repair exonuclease rad9 homolog A; hRAD9

UniProt Comments for Rad9	Rad9: a cell cycle checkpoint protein required for cell cycle arrest and DNA damage repair in response to DNA damage. Possesses a 3' to 5' exonuclease activity, which may contribute to its role in sensing and repairing DNA damage. Forms a checkpoint protein complex with RAD1 and HUS1. This complex is recruited by checkpoint protein RAD17 to the sites of DNA damage, which is thought to be important for triggering the checkpoint-signaling cascade. Use of alternative polyA sites has been noted for Rad9. Protein type: EC 3.1.11.2; DNA replication; Deoxyribonuclease; Apoptosis; Cell cycle regulation Chromosomal Location of Human Ortholog: 11q13.1-q13.2 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein binding; enzyme binding; histone deacetylase binding; exodeoxyribonuclease III activity; 3'-5' exonuclease activity; SH3 domain binding; protein kinase binding Biological Process: intra-S DNA damage checkpoint; DNA damage checkpoint; DNA replication checkpoint; DNA replication; DNA repair; DNA catabolic process, exonucleolytic; response to DNA damage stimulus
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