

## Product datasheet for **CF500435**

### Rad9 (RAD9A) Mouse Monoclonal Antibody [Clone ID: OTI5D9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5D9
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000 IHC 1:50
Reactivity:	Human, Dog, Monkey
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full-length protein expressed in 293T cell transfected with human RAD9A expression vector
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	42.5 kDa
Gene Name:	RAD9 checkpoint clamp component A
Database Link:	<a href="#">NP_004575</a> <a href="#">Entrez Gene 483696 Dog</a> <a href="#">Entrez Gene 712345 Monkey</a> <a href="#">Entrez Gene 5883 Human</a> <a href="#">Q99638</a>



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**Background:**

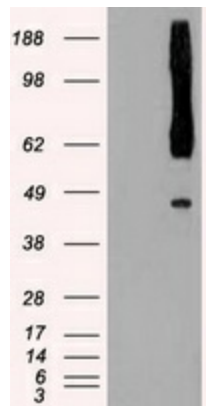
This gene product is highly similar to *Schizosaccharomyces pombe rad9*, a cell cycle checkpoint protein required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein is found to possess 3' to 5' exonuclease activity, which may contribute to its role in sensing and repairing DNA damage. It 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 this gene.

**Synonyms:**

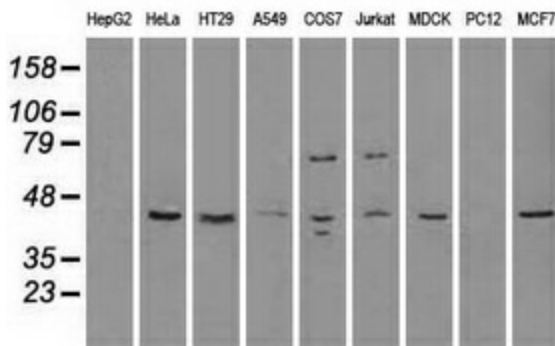
RAD9

**Protein Families:**

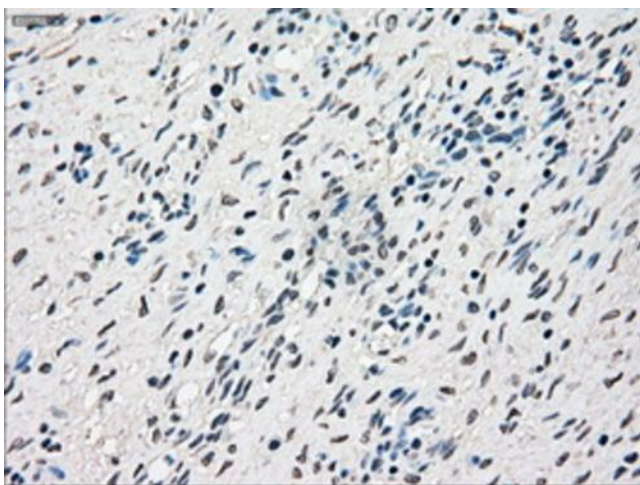
Druggable Genome, Stem cell - Pluripotency

**Product images:**


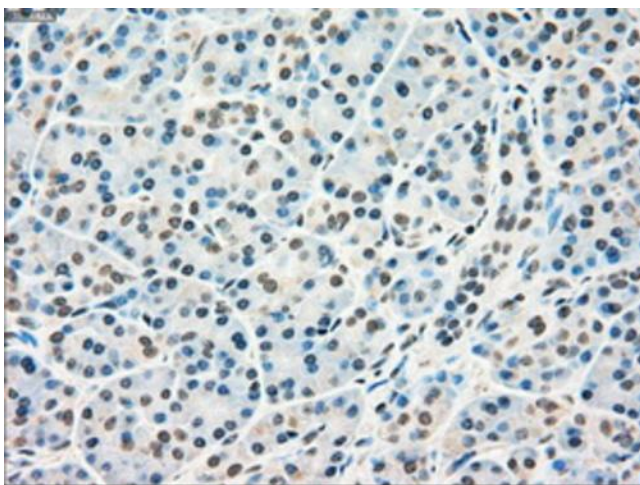
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY RAD9A ([RC204439], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RAD9A. Positive lysates [LY401451] (100ug) and [LC401451] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-RAD9A monoclonal antibody.



Immunohistochemical staining of paraffin-embedded Ovary tissue within the normal limits using anti-RAD9A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-RAD9A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.