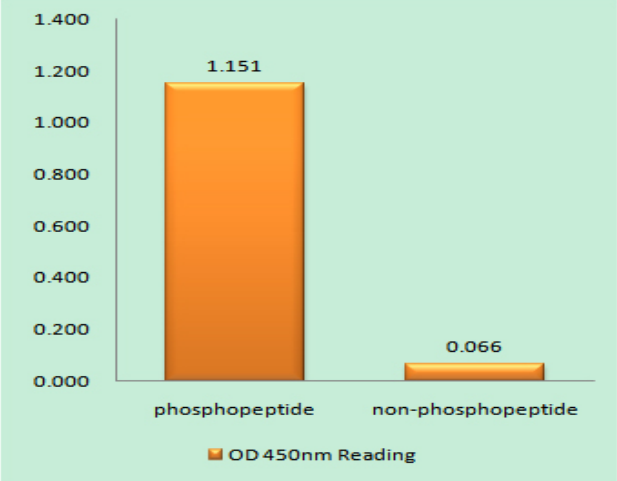
Rad52 (phospho Tyr104) Polyclonal Antibody

Catalog No	YP-Ab-00207
Isotype	IgG
Reactivity	Human;Mouse;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	RAD52
Protein Name	DNA repair protein RAD52 homolog
Immunogen	The antiserum was produced against synthesized peptide derived from human RAD52 around the phosphorylation site of Tyr104. AA range:70-119
Specificity	Phospho-Rad52 (Y104) Polyclonal Antibody detects endogenous levels of Rad52 protein only when phosphorylated at Y104.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RAD52; DNA repair protein RAD52 homolog
Observed Band	46kD
Cell Pathway	Nucleus .
Tissue Specificity	Amygdala,Brain,Embryonal rhabdomyosarcoma,Hippocampus,PCR rescued c
Function	function:Involved in double-stranded break repair. Plays a central role in genetic recombination and DNA repair by promoting the annealing of complementary single-stranded DNA and by stimulation of the RAD51 recombinase.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the RAD52 family.,subunit:Forms a undecameric ring.,
Background	The protein encoded by this gene shares similarity with Saccharomyces cerevisiae Rad52, a protein important for DNA double-strand break repair and homologous recombination. This gene product was shown to bind single-stranded DNA ends, and mediate the DNA-DNA interaction necessary for the annealing of complementary DNA strands. It was also found to interact with DNA recombination protein RAD51, which suggested its role in RAD51 related DNA recombination and repair. A pseudogene of this gene is present on chromosome 2. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length

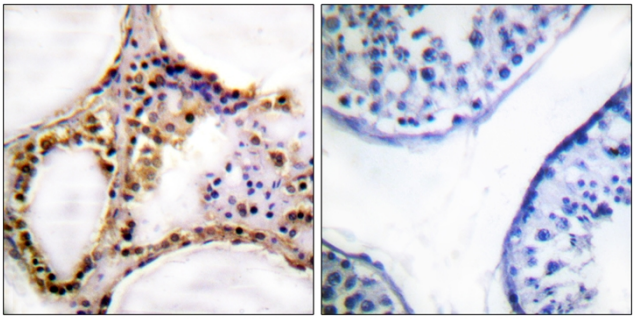
nature is not known. [provided by RefSeq, Jul 2014],

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

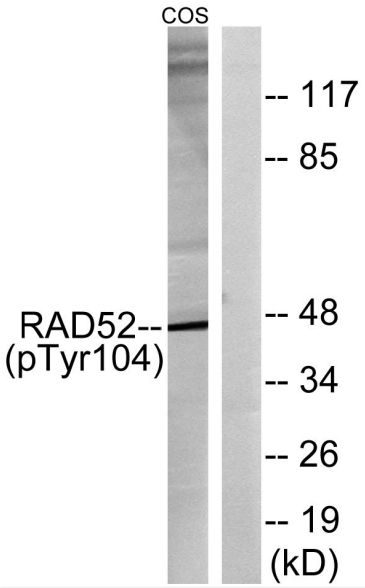
Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using RAD52 (Phospho-Tyr104) Antibody



Immunohistochemistry analysis of paraffin-embedded human testis, using RAD52 (Phospho-Tyr104) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with H2O2 100uM 30', using RAD52 (Phospho-Tyr104) Antibody. The lane on the right is blocked with the phospho peptide.