

RAD51 Monoclonal Antibody (HIS52 (87.6E4))

Catalog NumberMA1-23842

Product data sheet

Details		Species Reactivity	
Size	125 µg	Species reactivity	Rat
Host/Isotope	Mouse / IgG1	<div>Tested ApplicationsDilution *</div>	
Class	Monoclonal		
Type	Antibody	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Clone	HIS52 (87.6E4)	Immunocytochemistry (ICC/IF)	Assay-dependent
Immunogen	Stromal cells from rat lymph node	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

This antibody does not react with mouse, guinea pig, rabbit, porcine, goat, ovine, or chicken protein.

Background/Target Information

RAD51 plays a critical role in homologous strand exchange, a key step in DNA repair through homologous recombination. It binds to single and double-stranded DNA and exhibits DNA-dependent ATPase activity. RAD51 catalyzes the recognition of homology and strand exchange between homologous DNA partners to form a joint molecule between a processed DNA break and the repair template. It binds to a single-stranded DNA in an ATP-dependent manner to form nucleoprotein filaments which are essential for the homology search and strand exchange. Mutations in the gene can results in breast cancer, mirror movements 2 and fanconi anemia.

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