

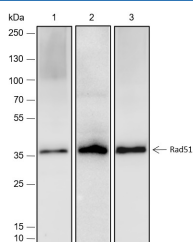
## Recombinant Rad51 Monoclonal Antibody

catalog number: AN301776L

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

| Description  |                                                                 |
|--------------|-----------------------------------------------------------------|
| Reactivity   | Human;Rat;Mouse                                                 |
| Immunogen    | Recombinant human Rad51 fragment                                |
| Host         | Rabbit                                                          |
| Isotype      | IgG, κ                                                          |
| Clone        | C111398                                                         |
| Purification | Protein A purified                                              |
| Buffer       | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |
| Applications | Recommended Dilution                                            |
| WB           | 1:500-1:2000                                                    |
| IHC          | 1:50-1:100                                                      |
| IF           | 1:100-1:200                                                     |

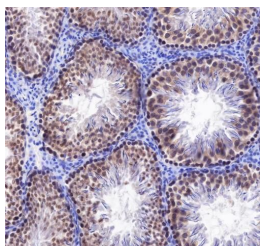
## Data



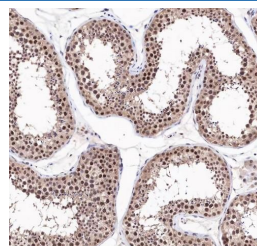
Western Blot with Rad51 Monoclonal Antibody at dilution of 1:2000. Lane 1: Jurkat, Lane 2: NIH/3T3, Lane 3: C6

**Observed-MW:37 kDa**

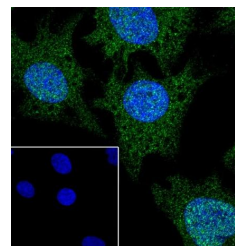
**Calculated-MW:37 kDa**



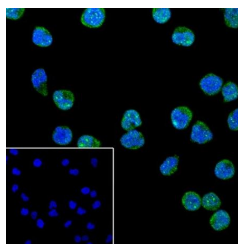
Immunohistochemistry of paraffin-embedded Rat testis using Rad51 Monoclonal Antibody at dilution of 1:100.



Immunohistochemistry of paraffin-embedded Human testis using Rad51 Monoclonal Antibody at dilution of 1:100.



Immunofluorescent analysis of (4% Paraformaldehyde) fixed HeLa cells using anti-Rad51 Monoclonal Antibody at dilution of 1:200.



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Rev. V1.2

Immunofluorescent analysis of (4% Paraformaldehyde)  
fixed Jurkat cells using anti-Rad51 Monoclonal Antibody  
at dilution of 1:500.

## Preparation & Storage

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| <b>Storage</b>  | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| <b>Shipping</b> | Ice bag                                                         |

## Background

DNA repair protein RAD51 homolog 1 (Rad51) plays an important role in homologous strand exchange, a key step in DNA repair through homologous recombination (HR). Rad51 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.

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