

## DNA repair and recombination protein RAD54-like Antibody

Mouse Monoclonal Antibody [Clone 4E3/1]

Catalog No	Format	Size
8438-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
8438-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
8438-MSM1-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Western Blot (WB)	2-4ug/ml	

### Product Details

<b>Clone</b>	4E3/1
<b>Immunogen</b>	Recombinant full-length human Rad54L protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	84.35kDa
<b>Cellular Localization</b>	Nucleus
<b>Species Reactivity</b>	Human

\*Optimal dilution for a specific application should be determined.

### Product Images for DNA repair and recombination protein RAD54-like Antibody

#### Specificity & Comments

Plays an essential role in homologous recombination (HR) which is a major pathway for repairing DNA double-strand breaks (DSBs), single-stranded DNA (ssDNA) gaps, and stalled or collapsed replication forks (PubMed:11459989, PubMed:12205100, PubMed:24798879, PubMed:27264870, PubMed:32457312, PubMed:9774452). Acts as a molecular motor during the homology search and guides RAD51 ssDNA along a donor dsDNA thereby changing the homology search from the diffusion-based mechanism to a motor-guided mechanism. Also plays an essential role in RAD51-mediated synaptic complex formation which consists of three strands encased in a protein filament formed once homology is recognized. Once DNA strand exchange occurred, dissociates RAD51 from nucleoprotein filaments formed on dsDNA (By similarity).

#### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

#### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

#### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.