



## **Rad50 (DNA Repair Protein RAD50, hRad50, hsRAD50, Mrell, Nbs1 Complex, RAD50-2, RAD50 Homolog (S cerevisiae), RAD50 Homolog, RAD50 PEN, Rad50I, Truncated RAD50 Protein)**

### **Catalog number**

R0450-01L

### **Supplier**

United States Biological

Rad50, a 153kD protein involved in DNA double strand break repair, is associated with Mre11 and p95 (Nibrin) to form a multiprotein complex involved in the double strand break repair process. Upon DNA damage, Rad50 and Mre11 redistribute and are colocalized within the nucleus of damaged cells.

### **Applications**

Suitable for use in Western Blot and Immunoprecipitation. Not suitable for Immunofluorescence. Other applications not tested.

### **Recommended Dilutions**

Immunoprecipitation: 3-4x10<sup>6</sup> cells  
Optimal dilutions to be determined by the researcher.

### **Storage and Stability**

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

### **Immunogen**

Synthetic peptide corresponding to the C-terminal region (604aa) of the mouse Rad50 protein. Cellular Localization: Upon DNA damage, Rad50 and Mre11 redistribute and are co-localized within the nucleus of damaged cells.

### **Formulation**

Supplied as a liquid, 0.02% sodium azide.

### **Purity**

Serum

### **Specificity**

Recognizes mouse Rad50 at ~153kD. Species Crossreactivity: human and hamster.

### **Product Type**

Pab

### **Source**

mouse



### **Isotype**

IgG

### **Grade**

Serum

### **Applications**

IP WB

### **Crossreactivity**

Hm Hu Mo

### **Storage**

-20°C

### **Reference**

1. Takemura, H., et al. Defective Mre11-dependent Activation of Chk2 by Ataxia Telangiectasia Mutated in Colorectal Carcinoma Cells in Response to Replication-dependent DNA Double Strand Breaks. J. Biol. Chem. 281: 30814-30823 (2006)