

## Mouse Monoclonal Antibody to RAD50

Catalogue Number	sAP-1312
Target Molecule	<b>Name:</b> RAD50 <b>Aliases:</b> NBSLD; RAD502; hRad50 <b>MW:</b> 154kDa <b>Entrez Gene ID:</b> 10111
Description	The protein encoded by this gene is highly similar to <i>Saccharomyces cerevisiae</i> Rad50, a protein involved in DNA double-strand break repair. This protein forms a complex with MRE11 and NBS1. The protein complex binds to DNA and displays numerous enzymatic activities that are required for nonhomologous joining of DNA ends. This protein, cooperating with its partners, is important for DNA double-strand break repair, cell cycle checkpoint activation, telomere maintenance, and meiotic recombination. Knockout studies of the mouse homolog suggest this gene is essential for cell growth and viability. Mutations in this gene are the cause of Nijmegen breakage syndrome-like disorder.;
Immunogen	Purified recombinant fragment of human RAD50 (AA: 228-359) expressed in E. Coli.
Recitative Species	Human; Rat;
Clone	MM3D2G10;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
Reconstitution/Storages	Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: ; FCM: 1 to 200 - 1 to 400
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1.Breast Cancer Res Treat. 2010 Sep;123(2):607-9. ; 2.Dis Markers. 2008;24(2):127-34.;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**