

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Rad51 in direct ELISAs.
Source	Monoclonal Mouse IgG ₃ Clone # 523701
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Rad51 Val174-Asp339 Accession # Q06609
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

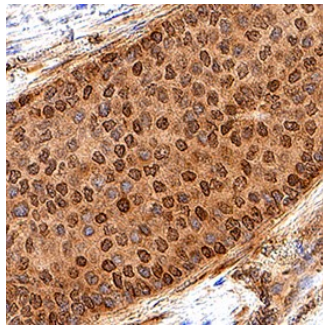
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
Immunohistochemistry	5-25 µg/mL	See Below

DATA

Immunohistochemistry



Rad51 in Human Breast Cancer Tissue.
Rad51 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Mouse Anti-Human Rad51 Monoclonal Antibody (Catalog # MAB9948) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human Rad51 is a 339 amino acids, 37kDa protein that plays an important role in homologous strand exchange, a key step in DNA repair through homologous recombination. RAD51 family members are homologous to the bacterial RecA and yeast Rad51 and are highly conserved in most eukaryotes, from yeast to humans. Different splice variants of the human RAD51 gene have been found.