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36-3079: Anti-RAD51 (Prognostic and Response to Chemotherapy Marker) Monoclonal Antibody(Clone: RAD51/2701)

Clonality: Monoclonal
Clone Name: RAD51/2701
Application: FACS,WB,IHC
Reactivity: Human
Gene: RAD51
Gene ID: 5888
Uniprot ID: 006609

RCA1/BRCA2 containing complex, subunit 5; BRCC5; DNA repair protein RAD51; FANCR;

Alternative Name: HsT16930; MRMV2; RAD51; RAD51 recombinase; RAD51A; RECA; RecA like protein;

Recombination protein A

Isotype: Mouse IgG2b, kappa

Immunogen Information: Recombinant fragment of human RAD51 protein (around aa 1-134) (exact sequence is

proprietary)

Description

RAD51 is one of the key factors of DNA repair by homologous recombination and has been shown to have anti-apoptotic activity in tumor cells. RAD51 protein interacts with a variety of tumor suppressor proteins including p53, BRCA1 and BRCA2. Elevated expression of RAD51 enhances radio-resistance of human tumor cells. Overexpression of RAD51 protein in tumor cells renders them resistant against cytotoxic drµgs like Cisplatin. RAD51 interacts with BRCA1 and BRCA2 to influence subcellular localization and cellular response to DNA damage. BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis from deregulation of RAD51. High-level expression of RAD51 has been observed in a variety of human malignancies.RAD51 overexpression correlates with histological grading of the tumor in invasive ductal mammary carcinoma.

Product Info

Amount : $20 \mu g / 100 \mu g$

Content: 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS

with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage condition : 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.

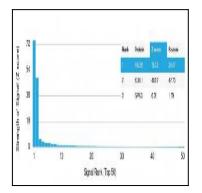
Application Note

Flow Cytometry (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);



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Fig. 1: Analysis of Protein Array containing more than 19,000 full-length human proteins using RAD51 Mouse Monoclonal Antibody (RAD51/2701) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

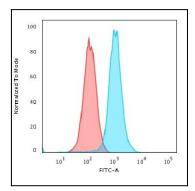


Fig. 2: Flow Cytometric Analysis of K562 cells using RAD51 Mouse Monoclonal Antibody (RAD51/2701) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

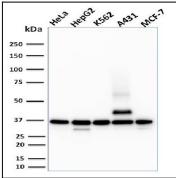


Fig. 3: Western Blot Analysis of HeLa, HepG2, K562, A431 and MCF-7 cell lysate using RAD51 Mouse Monoclonal Antibody (RAD51/2701).

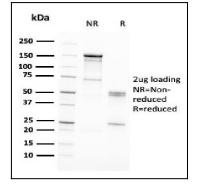


Fig. 4: SDS-PAGE Analysis Purified RAD51 Mouse Monoclonal Antibody (RAD51/2701). Confirmation of Purity and Integrity of Antibody.