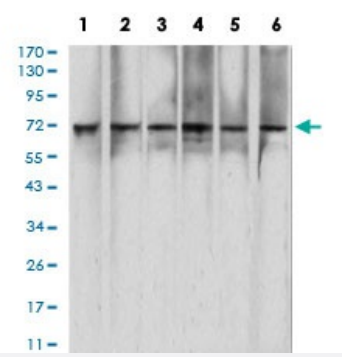
RAD21 monoclonal antibody, clone 1B6D1

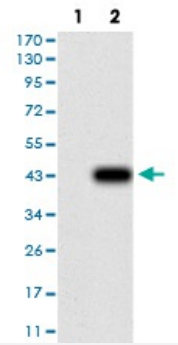
Catalog # MAB17194 Size 100 ug

Applications



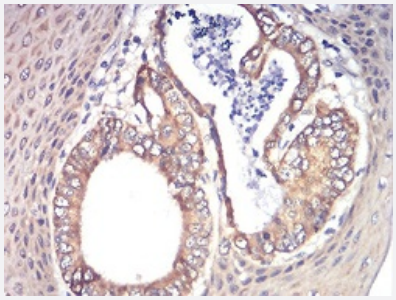
Western Blot (Cell lysate)

Western blot analysis of Lane 1: HeLa cell; Lane 2: HEK293 cell; Lane 3: K562 cell; Lane 4: C6 cell; Lane 5: COS-7 cell; Lane 6: NIH/3T3 cell with RAD21 monoclonal antibody.



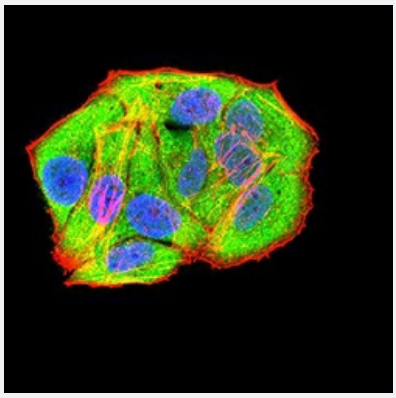
Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) RAD21-hIgGFc transfected HEK293 cell lysate.



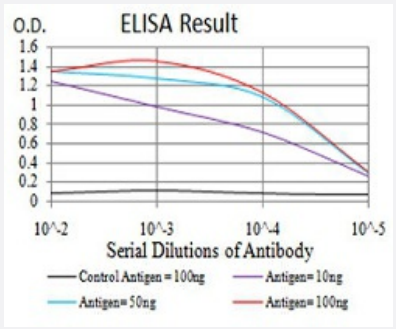
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded esophageal cancer tissues with RAD21 monoclonal antibody.



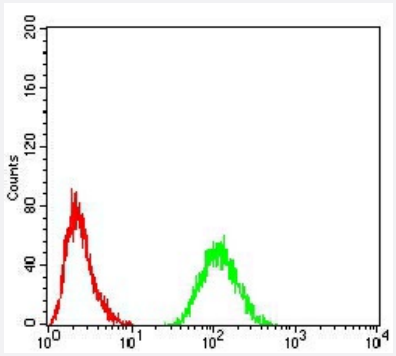
Immunocytochemistry

Immunocytochemical staining of HeLa cells with RAD21 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor- 555 phalloidin (red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of RAD21 monoclonal antibody, clone 1B6D1.



Flow Cytometry

Flow cytometric analysis of HeLa cells with RAD21 monoclonal antibody (green) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human RAD21.
Immunogen	Recombinant protein corresponding to amino acid 287-403 of human RAD21 from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	71.7kDa
Reactivity	Human, Monkey, Rat
Form	Liquid
Isotype	IgG1

Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunocytochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Flow Cytometry

  Flow cytometric analysis of HeLa cells with RAD21 monoclonal antibody (green) and negative control (red).

Gene Info — RAD21

Entrez GeneID	5885
Gene Name	RAD21

Gene Alias	FLJ25655, FLJ40596, HR21, HRAD21, KIAA0078, MCD1, NXP1, SCC1, hHR21
Gene Description	RAD21 homolog (S. pombe)
Omim ID	606462
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is highly similar to the gene product of Schizosaccharomyces pombe rad21, a gene involved in the repair of DNA double-strand breaks, as well as in chromatid cohesion during mitosis. This protein is a nuclear phospho-protein, which becomes hyperphosphorylated in cell cycle M phase. The highly regulated association of this protein with mitotic chromatin specifically at the centromere region suggests its role in sister chromatid cohesion in mitotic cells. [provided by RefSeq
Other Designations	RAD21 homolog|nuclear matrix protein 1|protein involved in DNA double-strand break repair

Pathway

- Cell cycle

Disease

- Adenocarcinoma
- Fibrosis
- Genetic Predisposition to Disease
- Neoplasms
- Pancreatic Neoplasms
- Radiation Injuries