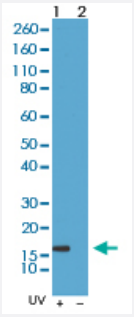
RecomAb™

Histone H2AX (phospho S139) monoclonal antibody, clone RM224

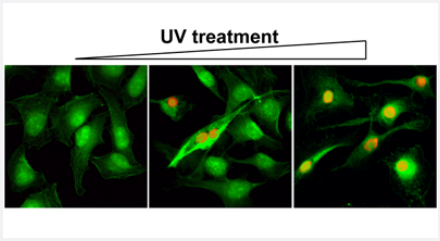
Catalog # MAB15111 Size 100 ug

Applications



Western Blot (Cell lysate)

Western Blot analysis of Lane 1: acid extracts of HeLa cell treated with UV and Lane 2: acid extracts of HeLa cell with Histone H2AX (phospho S139) monoclonal antibody, clone RM224 (Cat # MAB15111) at 0.5 ug/mL working concentration.



Immunocytochemistry

Immunocytochemistry staining of HeLa cells with Histone H2AX (phospho S139) monoclonal antibody, clone RM224 (Cat # MAB15111) (Red). Actin filaments have been labeled with fluorescein phalloidin (Green).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against of human histone H2AX (S139).
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g S139 of human Histone H2AX.
Sequence	N/A
Reactivity	Human

Specificity	This antibody reacts to histone H2AX only when phosphorylated at S139. No cross reactivity with oth er phosphorylated histones.
Form	Liquid
Purification	Protein A affinity purification
Isotype	IgG
Recommend Usage	ELISA (0.2-1 ug/mL) Immunocytochemistry (0.5-2 ug/mL) Multiplex (0.1-1 ug/mL) Western Blot (0.5-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1% BSA, 0.09% sodium azide)
Storage Instruction	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.

Applications

- Western Blot (Cell lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — H2AFX

Entrez GeneID	3014
Protein Accession#	P16104
Gene Name	H2AFX
Gene Alias	H2A.X, H2A/X, H2AX

Gene Description	H2A histone family, member X
Omim ID	601772
Gene Ontology	Hyperlink
Gene Summary	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chro mosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, an d H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and f unctions in the compaction of chromatin into higher order structures. This gene encodes a membe r of the histone H2A family, and generates two transcripts through the use of the conserved stem-l oop termination motif, and the polyA addition motif. [provided by RefSeq
Other Designations	H2AX histone

Publication Reference

- LOXL4, but not LOXL2, is the critical determinant of pathological collagen cross-linking and fibrosis in the lung.

  Hsiao-Yen Ma, Qingling Li, Weng Ruh Wong, Elsa-Noah N'Diaye, Patrick Caplazi, Hannah Bender, Zhiyu Huang, Alexander Arlantico, Surinder Jeet, Aaron Wong, Claire Emson, Hans Brightbill, Lucinda Tam, Robert Newman, Merone Roose-Girma, Wendy Sandoval, Ning Ding.

  Sci Adv. 2023 May; 9(21):eadf0133.

  Application: IF, Mice, C57BL/6J mice

Pathway

- Systemic lupus erythematosus

Disease

- Azoospermia
- Breast cancer
- Breast Neoplasms
- DNA Damage
- Genetic Predisposition to Disease
- Lymphoma

- Oligospermia
- Ovarian cancer
- Prostate cancer
- Prostatic Neoplasms
- Urinary Bladder Neoplasms