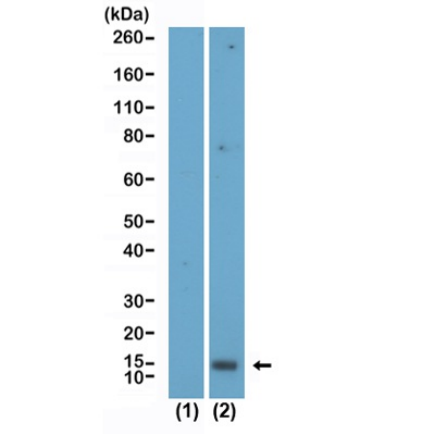
RecomAb™ Sm Size

Histone H2AX (acetyl K5) monoclonal antibody, clone RM445

Catalog # RAB09502 Size 25 ug

Applications



Western Blot

Western blot analysis of Lane 1: H2A recombinant protein, Lane 2: acid extracts of HeLa cell lysate using H2AFX (acetyl K5) monoclonal antibody, clone RM445 (Cat # RAB09502) under 0.04 ug/mL working concentration.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human histone H2AX.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic acetyl peptide corresponding to residues surrounding Lys5 of human histone H2AX.
Reactivity	Human
Specificity	This antibody reacts to histone H2AX acetylated at Lysine 5 (K5ac). No cross reactivity with non-modified Lysine 5 or other acetylated Lysines in histone H2A.
Form	Liquid
Purification	Protein A purification
Isotype	IgG

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Recommend Usage	Western Blot (0.04 ug/mL-0.2 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

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Gene Info — H2AFX

Entrez GeneID	3014
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

Pathway

- Systemic lupus erythematosus

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Disease

- Azoospermia
- Breast cancer
- Breast Neoplasms
- DNA Damage
- Genetic Predisposition to Disease
- Lymphoma
- Oligospermia
- Ovarian cancer
- Prostate cancer
- Prostatic Neoplasms
- Urinary Bladder Neoplasms

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