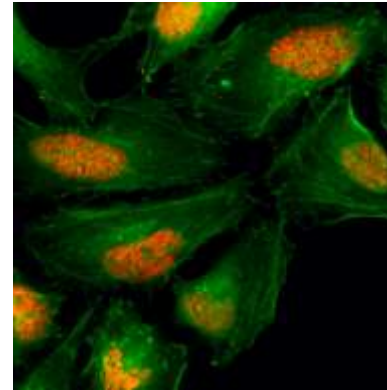


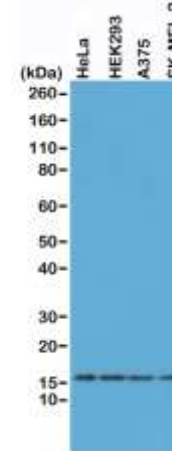
Anti-Histone H2AX Rabbit Monoclonal Antibody

CATALOG NO:	A1143-25
ALTERNATIVE NAMES:	H3F3A, H3.3A, H3F3, H3F3B, H3.3B
AMOUNT:	25 µg
CONCENTRATION:	1 mg/ml
CLONE:	RM214
IMMUNOGEN:	A peptide corresponding to the C-terminus of human Histone H2AX
HOST/ISOTYPE:	Rabbit IgG
SPECIES REACTIVITY:	Human
PURIFICATION:	Protein A affinity purified from an animal origin-free culture supernatant
FORM:	Liquid
FORMULATION:	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
SPECIFICITY:	This antibody reacts to Histone H2AX protein, independent of post-translational modifications. No cross reactivity with other histone proteins.
STORAGE CONDITIONS:	For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles
DESCRIPTION:	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Required for checkpoint-mediated arrest of cell cycle progression in response to low doses of ionizing radiation and for efficient repair of DNA double strand breaks (DSBs) specifically when modified by C-terminal phosphorylation.
APPLICATION:	Western Blot: 0.5 ug/mL – 2 ug/mL; ICC: 1 ug/mL - 2 ug/mL; ELISA: 0.2 ug/mL - 1 ug/mL; Multiplex: 0.2 ug/mL – 1 ug/mL.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Anti-Histone H3.3 antibody reacts specifically to Histone H3.3. No cross reactivity with Histone H3.1



Western Blot of A375, HEK293, HeLa and SK-MEL-2 whole cell lysates, using RM214 at 0.5 ug/mL, showed endogenous Histone H2AX

RELATED PRODUCTS:

- Histone H2A (1-129 aa), Xenopus recombinant (**Cat. No. 7668-100**)
- Histone H2A Antibody (**Cat. No. 3621-100**)
- Histone H2A Peptide (**Cat. No. 7145-01**)
- Histone H2AX Antibody (**Cat. No. 3761-100**)
- Histone H2A Blocking Peptide (**Cat. No. 3621BP-50**)

FOR RESEARCH USE ONLY! Not to be used on humans.