

bsm-52163R**[Primary Antibody]****phospho-H2AX (Ser139) Recombinant Rabbit mAb****BioSS**
ANTIBODIES

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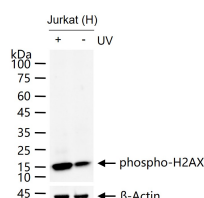
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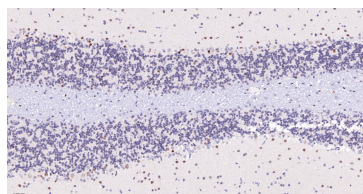
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— DATASHEET —

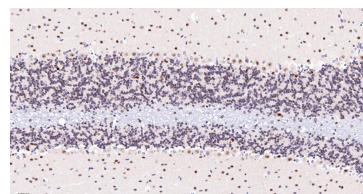
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:200-1000) IHC-F (1:200-1000) IF (1:200-1000) Reactivity: Human, Mouse, Rat Predicted MW.: 16 kDa Observed MW.: 16 kDa Subcellular Location: Nucleus
Clonality: Recombinant	CloneNo.: 1C14	
GeneID: 3014	SWISS: P16104	
Target: H2AX (Ser139)		
Immunogen: A synthesized peptide derived from human Histone H2A.X around the phosphorylation site of S139: QA-pS-QEY.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and 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 functions in the compaction of chromatin into higher order structures. This gene encodes a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Jul 2008].		

— VALIDATION IMAGES —

Jurkat (H) cells were treated with UV for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with phospho-H2AX (Ser139) monoclonal antibody, unconjugated (bsm-52163R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-H2AX (Ser139) Monoclonal Antibody, Unconjugated (bsm-52163R) at 1:800 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-H2AX (Ser139) Monoclonal Antibody, Unconjugated (bsm-52163R) at 1:800 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=18.027]** Shikai Liu. et al. On-Demand Generation of Peroxynitrite from an Integrated Two-Dimensional System for Enhanced Tumor Therapy. ACS NANO. 2022;XXXX(XXX):XXX-XXX IHC, WB ; Mouse, Human. 35666853
- **[IF=14.5]** Liping Bai. et al. Self-sufficient nanoparticles with dual-enzyme activity trigger radical storms and activate cascade-amplified antitumor immunologic responses. ACTA PHARM SIN B. 2023 Oct;; IF ; Mouse. 10.1016/j.apsb.2023.10.003
- **[IF=8.469]** Zhang, Xin. et al. Acquired temozolomide resistance in MGMTlow gliomas is associated with regulation of homologous recombination repair by ROCK2. Cell Death Dis. 2022 Feb;13(2):1-15 WB, ChIP, IF ; Human. 35145081

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=8.4]** Wang Zhen-chuan. et al. Targeting PPAR α activation sensitizes glioblastoma cells to temozolomide and reverses acquired resistance by inhibiting H3K18 lactylation. ACTA PHARMACOL SIN. 2025 Jun;;1-16 IF,WB ;Human. 40500345
- **[IF=7.1]** Chen-Lin Yu. et al. Hernandonine-Mediated Autophagic Cell Death in Hepatocellular Carcinoma: Interplay of p53 and YAP Signaling Pathways. FREE RADICAL BIO MED. 2024 Jun;; WB ;Human. 38950659