bsm-51222M **[Primary Antibody]**

H2AX Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 8C5
GeneID: 3014
SWISS: P16104
Target: H2AX
Immunogen: KLH conjugated synthetic peptide derived from human H2AX: 100-143/143.
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].

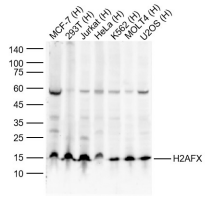
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:400-800)
IF (1:100-500)

Reactivity: Human

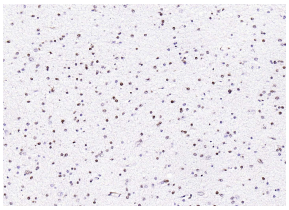
Predicted MW.: 16 kDa

Subcellular Location: Nucleus

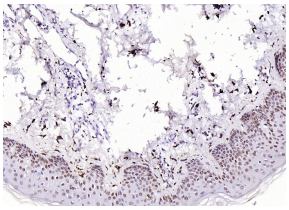
VALIDATION IMAGES



Sample: Lane 1: Human MCF-7 cell Lysates Lane 2: Human 293T cell Lysates Lane 3: Human Jurkat cell Lysates Lane 4: Human Hela cell Lysates Lane 5: Human K562 cell Lysates Lane 6: Human MOLT4 cell Lysates Lane 7: Human U2OS cell Lysates Primary: Anti-H2AFX (bsm-51222M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 16kDa Observed band size: 16kDa



Paraformaldehyde-fixed, paraffin embedded (human brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (H2AFX) Monoclonal Antibody, Unconjugated (bsm-51222M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human skin cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (H2AFX) Monoclonal Antibody, Unconjugated (bsm-51222M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=9.918]** Jie Hao. et al. Multifunctional miR181a nanoparticles promote highly efficient radiotherapy for rectal cancer. MATER TODAY ADV. 2022 Dec;16:100317 WB ;Mouse. 10.1016/j.mtadv.2022.100317
- **[IF=9.429]** Li, Guang. et al. Synergetic delivery of artesunate and isosorbide 5-mononitrate with reduction-sensitive polymer nanoparticles for ovarian cancer chemotherapy. J NANOBIOTECHNOL. 2022 Dec;20(1):1-13 WB ;Human. 36335352

- **[IF=3]** Yugui Du. et al. Role of mechanosensitive ion channel Piezo1 in tension-side orthodontic alveolar bone remodeling in rats. ARCH ORAL BIOL. 2023 Nov;155:105798 IHC ;Rat. 37651768