bs-2560R **[Primary Antibody]**

H2AX Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3014 **SWISS:** P16104

Target: H2AX

Immunogen: KLH conjugated synthetic peptide derived from human H2AX: 30-143/143.

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].

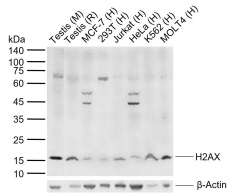
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:400-800)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

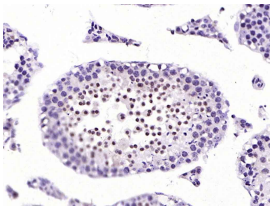
Predicted MW.: 16 kDa

Subcellular Location: Nucleus

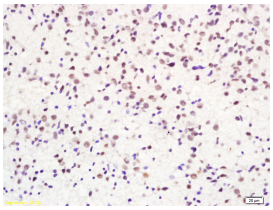
VALIDATION IMAGES



Sample: Lane 1: Mouse Testis tissue lysates Lane 2: Rat Testis tissue lysates Lane 3: Human MCF-7 cell lysates Lane 4: Human 293T cell lysates Lane 5: Human Jurkat cell lysates Lane 6: Human HeLa cell lysates Lane 7: Human K562 cell lysates Lane 8: Human MOLT4 cell lysates Primary: Anti-H2AX (bs-2560R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 16 kDa Observed band size: 16 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse testis); 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 (Histone H2A.x) Polyclonal Antibody, Unconjugated (bs-2560R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: human glioma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-H2AX/Histone H2A.x Polyclonal Antibody, Unconjugated(bs-2560R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=6.895]** Fangmei Zhang. et al. X-ray-triggered NO-released Bi–SNO nanoparticles: all-in-one nano-radiosensitizer with photothermal/gas therapy for enhanced radiotherapy. 2020 Aug 31 IF ;Human. 32935695
- **[IF=6.6]** Gaizhen Kuang. et al. Stimuli-Responsive Nodal Dual-Drug Polymer Nanoparticles for Cancer Therapy. INT J NANOMED. 2025 四月 23 IF ;Human. 40292406
- **[IF=5.7]** Zhou Xiaohai. et al. IGF2 deficiency promotes liver aging through mitochondrial dysfunction and upregulated

CEBPB signaling in d-galactose-induced aging mice. MOL MED. 2023 Dec;29(1):1-18 IF ;Mouse. 38017373

- **[IF=5.168]** Qi et al. Sensitization of tamoxifen-resistant breast cancer cells by Z-ligustilide through inhibiting autophagy and accumulating DNA damages. (2017) Oncotarget. 8:29300-29317 ICC ;Human. 28431397
- **[IF=4.051]** Yang, Man. et al. Mice lacking DCAF2 in placenta die at the gastrulation stage. CELL TISSUE RES. 2022 Jun;:1-14 IHC ;Mouse. 35711069