bs-4715R **[Primary Antibody]**

Histone H3 (Tri Methyl K4) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 8350 **SWISS:** P68431

Target: Histone H3 (Tri Methyl K4)

Immunogen: KLH conjugated synthesised methylpeptide derived from human Histone H3 around the methylation site of tri methyl K4: RT(Tri Methyl-K)QT.

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: Modulation of the chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of four core histone proteins (H2A, H2B, H3 and H4), is the primary building block of chromatin. The N-terminal tail of core histones undergoes different posttranslational modifications including acetylation, phosphorylation and methylation. These modifications occur in response to cell signal stimuli and have a direct effect on gene expression. In most species, the histone H2B is primarily acetylated at lysines 5, 12, 15 and 20. Histone H3 is primarily acetylated at lysines 9, 14, 18 and 23. Acetylation at lysine 9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis.

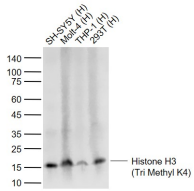
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: Human, Mouse, Rat

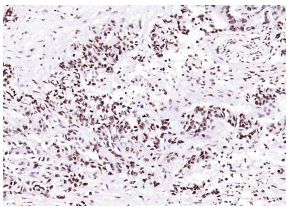
Predicted MW.: 15 kDa

Subcellular Location: Nucleus

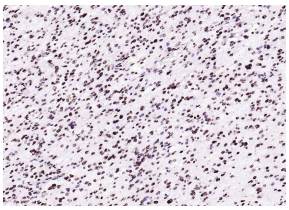
VALIDATION IMAGES



Sample: Lane 1: Human SH-SY5Y cell lysates Lane 2: Human Molt-4 cell lysates Lane 3: Human THP-1 cell lysates Lane 4: Human 293T cell lysates Primary: Anti- Histone H3 (Tri Methyl K4) (bs-4715R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 15 kD Observed band size: 15 kD



Paraformaldehyde-fixed, paraffin embedded (human rectal carcinoma); 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 H3 (Tri Methyl K4)) Polyclonal Antibody, Unconjugated (bs-4715R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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 (Histone H3 (Tri Methyl K4)) Polyclonal Antibody, Unconjugated (bs-4715R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=5.59]** Zheng, Yi-Chao, et al. "Triazole–dithiocarbamate based selective lysine specific demethylase 1 (LSD1) inactivators inhibit gastric cancer cell growth, invasion, and migration." Journal of medicinal chemistry 56.21 (2013): 8543-8560. WB ;Human. 24131029

- **[IF=5.59]** Ma, Li-Ying, et al. "Design, Synthesis, and Structure–Activity Relationship of Novel LSD1 Inhibitors Based on Pyrimidine–Thiourea Hybrids As Potent, Orally Active Antitumor Agents." Journal of medicinal chemistry 58.4 (2015): 1705-1716. WB ;Human. 25610955
- **[IF=4.26]** Hörber, Sebastian, et al. "The atypical inhibitor of NF-κB, IκBζ, controls macrophage interleukin-10 expression." Journal of Biological Chemistry291.24 (2016): 12851-12861. Other ;Mouse. 27129283
- **[IF=3.7]** Zhichao Zou. et al. TBX21 knockdown attenuates neuroinflammation induced by intracerebral hemorrhage via the SIRT1-WDR5-H3K4me3 axis. BRAIN RES BULL. 2025 Jun;:111415 WB ;Rat,Mouse. 40466814