

Histone H3 (R2) polyclonal antibody

Catalog: BS1660

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fibre is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. Covalent modifications of the canonical core histones, including acetylation, phosphorylation, methylation, and monoubiquitination are used to mark nucleosomes to create chromatin domains with a range of functions.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 17 kDa

Swiss-Prot:

P68431/Q71DI3/P84243

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

IF: 1:50~1:200

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Histone H3 (R2) polyclonal antibody detects endogenous levels of Histone H3 protein.

DATA:



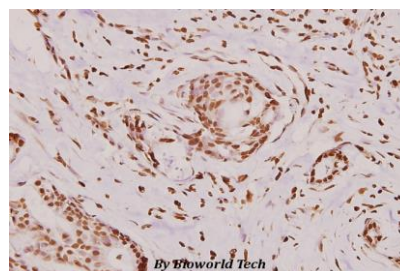
Western blot (WB) analysis of Histone H3 (R2) polyclonal antibody at 1:500 dilution

Lane1:A549 whole cell lysate(40ug)

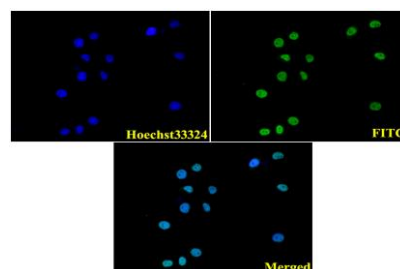
Lane2:Hela whole cell lysate(40ug)

Lane3:BV2 whole cell lysate(40ug)

Lane4:C6 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of Histone H3 (R2) pAb in paraformaldehyde-fixed human breast carcinoma tissue at 1:100.



IF image of BS1660 stained A549 cells. The cells were 4% paraformaldehyde fixed (20 min) and then incubated in 10% normal goat serum for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody Histone H3 (R2) #BS1660(1:100) at 10 µg/ml overnight at +4 °C. The secondary antibody (Green) was Goat Anti-Rabbit IgG (H+L) FITC#BS10950

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PRODUCT DATA SHEET

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used at a 1/1000 dilution for 1h. Hoechst33342 #BD5011 was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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