Histone H3 (R2) polyclonal antibody

货号：QS04085　宿主：兔　反应物种：人，小鼠，大鼠
Catalog: QS04085　Host: Rabbit　Reactivity: Human, Mouse, Rat

研究背景 BackGround:

组蛋白是负责真核生物染色体纤维的核小体结构的基本核蛋白。核小体由大约 146 bp 的 DNA 组成，包裹在组蛋白八聚体周围，组蛋白八聚体由四个核心组蛋白（H2A、H2B、H3 和 H4）成对组成。染色质纤维通过连接组蛋白 H1 与核小体之间的 DNA 相互作用进一步压缩，形成更高阶的染色质结构。经典核心组蛋白的共价修饰，包括乙酰化、磷酸化、甲基化和单泛素化，用于标记核小体，以创建具有一系列功能的染色质结构域。

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.

产品 Product:

兔IgG，1mg/mL的PBS溶液（含0.02%叠氮化钠，50%甘油，pH7.2）。
Rabbit IgG, 1mg/mL in PBS with 0.02% sodium azide,50% glycerol, pH7.2

分子量 Molecular Weight:

~ 17 kDa

Swiss-Prot:

P68431/Q71DI3/P84243

提纯和纯度 Purification & Purity:

使用表位特异性免疫原通过亲和层析从兔抗血清中亲和纯化该抗体，纯度>95%（SDS-PAGE）。
The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

应用 Applications:

WB: 1:500~1:1000
IHC: 1:50~1:200
IF: 1:50~1:200

存储和稳定性 Storage & Stability:

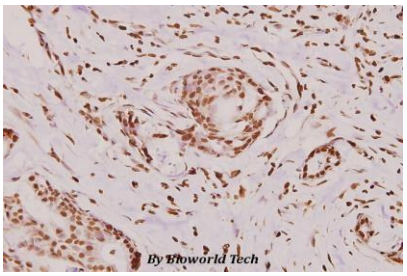
在 4° C 下短期储存。分装并在 -20° C 下长期储存。避免反复冻融。
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

特异性 Specificity:

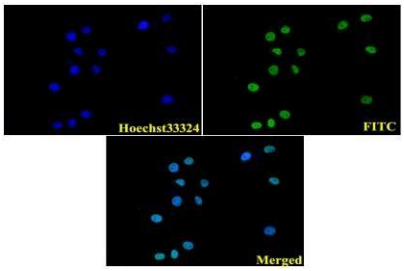
组蛋白 H3 （R2） 多克隆抗体可检测组蛋白 H3 蛋白的内源水平。
Histone H3 (R2) polyclonal antibody detects endogenous levels of Histone H3 protein.

数据 DATA:

1：500 稀释度的组蛋白 H3 （R2）多克隆抗体的蛋白质印迹 （WB）分析
Western blot (WB) analysis of Histone H3 (R2) polyclonal antibody at 1: 500 dilution
泳道1：A549全细胞裂解液（40μg）
泳道2：Hela全细胞裂解液（40μg）
泳道3：BV2全细胞裂解液（40μg）
泳道4：C6 全细胞裂解液（40μg）
Lane1:A549 whole cell lysate(40μg)
Lane2:Hela whole cell lysate(40μg)
Lane3:BV2 whole cell lysate(40μg)
Lane4:C6 whole cell lysate(40μg)



免疫组织化学 （IHC） 以 1：100 的比例分析石蜡包埋的人乳腺癌组织中组蛋白 H3 （R2） pAb。
Immunohistochemistry (IHC) analyzes of Histone H3 (R2) pAb in par- affin-embedded human breast carcinoma tissue at 1:100.



BS1660 染色的 A549 细胞的 IF 图像。将细胞 4% 多聚甲醛固定（20 分钟），然后在 10% 正常山羊血清中孵育 1 小时以透化细胞并阻断非特异性蛋白质-蛋白质相互作用。然后将细胞与 10 μg/ml 的抗体组蛋白 H3 （R2）#BS1660（1：100） 在 +4° C 下孵育过夜。 二抗（绿色）是山羊抗 兔 IgG （ H+L ）FITC#BS10950，以 1/1000 稀释度使用 1 小时。Hoechst33342 #BD5011 用于对细胞核（蓝色）进行染色。
IF image of BS1660 stained A549 cells.The cells were 4% paraform- aldehyde 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 10μg/ml overnight at +4°C. The secondary antibody (Green) was Goat Anti-Rabbit IgG (H+L) FITC#BS10950used at a 1/1000 dilution for 1h. Hoechst33342 #BD5011 was used tostain the cell nuclei (blue).

备注 Note:

仅供研究使用，不得用于诊断实验。
For research use only, not for use in diagnostic procedure.