

## macroH2A.1 polyclonal antibody

Catalog: BS90818

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Involved in stable X chromosome inactivation. Inhibits the binding of transcription factors and interferes with the activity of remodeling SWI/SNF complexes. Inhibits histone acetylation by EP300 and recruits class I HDACs, which induces an hypoacetylated state of chromatin. In addition, isoform 1, but not isoform 2, binds ADP-ribose and O-acetyl-ADP-ribose, and may be involved in ADP-ribose-mediated chromatin modulation.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

40 kDa

### Swiss-Prot:

O75367(Human) Q9QZQ8(Mouse)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:500-1:2,000

ICC:1:50-1:200

IHC:1:50-1:200

### Storage&Stability:

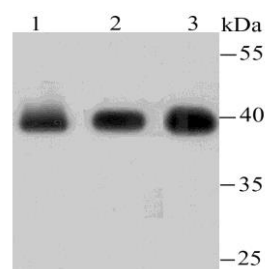
Store at +4 °C after thawing. Aliquot store at -20 °C or

-80 °C. Avoid repeated freeze / thaw cycles.

### Specificity:

macroH2A.1 polyclonal antibody detects endogenous levels of macroH2A.1 protein.

### DATA:

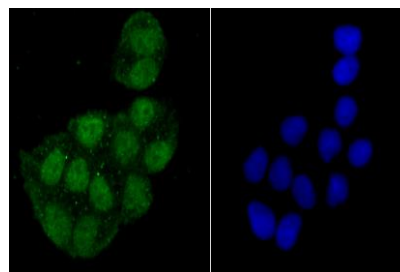


Western blot analysis of macroH2A.1 on different lysates using anti-macroH2A.1 antibody at 1/500 dilution. Positive control:

Lane 1: HeLa

Lane 2: Mouse placenta tissue

Lane 3: MCF-7



ICC staining macroH2A.1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

### Note:

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

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