

## HRP Conjugated Anti-Histone H3 Antibody [JJ090-07] - Loading control

# HA724276H



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat, Monkey
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 15 kDa
<b>Clone number:</b>	JJ090-07

**Description:** In eukaryotes, DNA is wrapped around histone octamers to form the basic unit of chromatin structure. The octamer is composed of histones H2A, H2B, H3 and H4, and it associates with approximately 200 base pairs of DNA to form the nucleosome. The association of DNA with histones results in dense packing of chromatin, which restricts proteins involved in gene transcription from binding to DNA. p300 preferentially acetylates Histone H3 at lysines 14 and 18 and Histone H4 at lysines 5 and 8. PCAF in its native form, primarily acetylates Histone H3 at lysine 14 to a monoacetylated form, and less efficiently acetylates Histone H4 at lysine 8. Histone H4 may also be acetylated at lysines 12 and 16, and the involvement of acetylated H4 with Histones H2A, H2B and H3 suggests that acetylated histones may be involved in dynamic chromatin remodeling.

**Conjugate:** HRP-conjugated

**Immunogen:** Recombinant protein within human Histone H3 aa 85-136/136.

**Positive control:** HeLa cell lysate, HEK-293 cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, C6 cell lysate, PC-12 cell lysate, COS-1 cell lysate.

**Subcellular location:** Nucleus, Chromosome.

**Database links:** SwissProt: P68431 Human | P84243 Human | Q16695 Human | Q6NXT2 Human | Q71D13 Human | P68433 Mouse | P84228 Mouse | Q6LED0 Rat

**Recommended Dilutions:**

**WB** 1:5,000-1:20,000

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

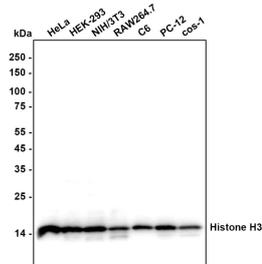
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## Images

**Fig1:** Western blot analysis of Histone H3 on different lysates with Mouse anti-Histone H3 antibody (HA724276H) at 1/10,000 dilution.



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Lane 1: HeLa cell lysate  
 Lane 2: HEK-293 cell lysate  
 Lane 3: NIH/3T3 cell lysate  
 Lane 4: RAW264.7 cell lysate  
 Lane 5: C6 cell lysate  
 Lane 6: PC-12 cell lysate  
 Lane 7: COS-1 cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 15 kDa  
 Observed band size: 15 kDa

Exposure time: 10 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA724276H, HRP) at 1/10,000 dilution was used in primary antibody dilution buffer (K1803) at room temperature for 1 hour.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Wani S et al. Human SCP4 is a chromatin-associated CTD phosphatase and exhibits the dynamic translocation during erythroid differentiation. *J Biochem* 160:111-20 (2016).
2. Ni JZ et al. A transgenerational role of the germline nuclear RNAi pathway in repressing heat stress-induced transcriptional activation in *C. elegans*. *Epigenetics Chromatin* 9:3 (2016).

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