

Anti-Histone H3 (citrulline R2) Antibody [PSH23-25]

HA724360



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB, IP
Molecular Wt:	Predicted band size: 15 kDa
Clone number:	PSH23-25

Description: Eukaryotic histones are basic and water soluble nuclear proteins that form hetero-octameric nucleosome particles by wrapping 146 base pairs of DNA in a left-handed super-helical turn sequentially to form chromosomal fiber. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form the octamer; formed of two H2A-H2B dimers and two H3-H4 dimers, forming two nearly symmetrical halves by tertiary structure. Over 80% of nucleosomes contain the linker Histone H1, derived from an intronless gene, that interacts with linker DNA between nucleosomes and mediates compaction into higher order chromatin. Histones are subject to posttranslational modification by enzymes primarily on their N-terminal tails, but also in their globular domains. Such modifications include methylation, citrullination, acetylation, phosphorylation, sumoylation, ubiquitination and ADP-ribosylation.

Positive control: 293T cells transfected with PADI4 treated with 10 mM calcium chloride and 10 μ M Ionomycin for 2 hours.

Subcellular location: Nucleus, Chromosome.

Database links: SwissProt: P68431 Human

Recommended Dilutions:

WB	1:2,000
IP	1-2 μ g/sample

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4 $^{\circ}$ C. Store at +4 $^{\circ}$ C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 $^{\circ}$ C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

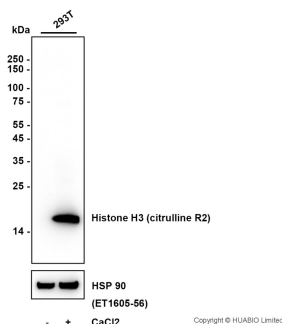
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of Histone H3 (citrulline R2) on different lysates with Rabbit anti-Histone H3 (citrulline R2) antibody (HA724360) at 1/2,000 dilution.



Lane 1: 293T (Human embryonic kidney cells) cells transfected with PADI4

Lane 2: 293T cells transfected with PADI4 treated with 10 mM calcium chloride and 10 μM Ionomycin for 2 hours

Lysates/proteins at 20 μg/Lane.

Exposure time: 4 seconds; ECL: K1801

Blocking: 5% NFD/MTBST, 1 hour at room temperature

Primary antibody: HA724360, 1/2,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

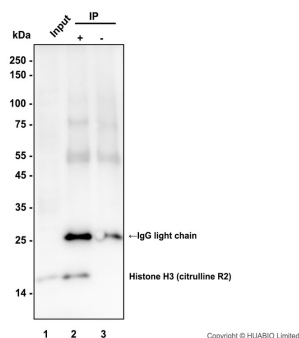
Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFD/MTBST, 1 hour at room temperature

Predicted band size: 15 kDa

Observed band size: 15 kDa

Fig2: Immunoprecipitation (IP)

Histone H3 (citrulline R2) was immunoprecipitated in 0.2 mg 293T (Human embryonic kidney cells) cells transfected with PADI4 treated with 10 mM calcium chloride and 10 μM Ionomycin for 2 hours cell lysate with HA724360 at 2 μg/10 μl beads. Western blot was performed from the immunoprecipitate using HA724360 at 1/1,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody (NBI01H) at 1/5,000 dilution was used for 1 hour at room temperature.



Lane 1: 293T cells transfected with PADI4 treated with 10 mM calcium chloride and 10 μM Ionomycin for 2 hours cell lysate (input)

Lane 2: HA724360 IP in 293T cells transfected with PADI4 treated with 10 mM calcium chloride and 10 μM Ionomycin for 2 hours cell lysate

Lane 3: Rabbit IgG instead of HA724360 in 293T cells transfected with PADI4 treated with 10 mM calcium chloride and 10 μM Ionomycin for 2 hours cell lysate

Exposure time: 2 minutes

Blocking: 5% NFD/MTBST, 1 hour at room temperature

Primary dilution: HA724360, 1/1,000 in primary antibody dilution buffer (K1803), 2 hours at room temperature

Predicted band size: 15 kDa

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

Background References

1. Ouyang W et al. A citrullinated histone H3 monoclonal antibody for immune modulation in sepsis. Nat Commun. 2025 Aug

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