

Phospho-Histone H3 (Ser10) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Fruit fly, Human, Mouse, Non-human primate, Rat, Xenopus
Published Species	Rat, C. elegans, Fruit fly, Mouse, Human, Chicken
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding pSer10 of human histone H3
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 100µg/mL BSA, 0.15M NaCl, 50% glycerol
Contains	no preservative
Storage conditions	-20°C
RRID	AB_10984484

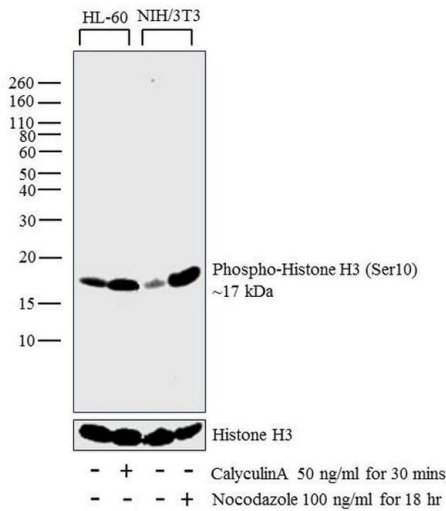
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	7 Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200	-
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1:400	-
Immunocytochemistry (ICC/IF)	1:800	7 Publications
Flow Cytometry (Flow)	1:50	1 Publication
Peptide array (Array)	1:2,000	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Phospho-Histone H3 (Ser10) Antibody detects endogenous levels of histone H3 only when phosphorylated at Ser10; however, this antibody does not detect phosphorylated Ser10 when Lys9 is acetylated or methylated. This antibody does not cross-react with histone H3 phosphorylated at Ser28.

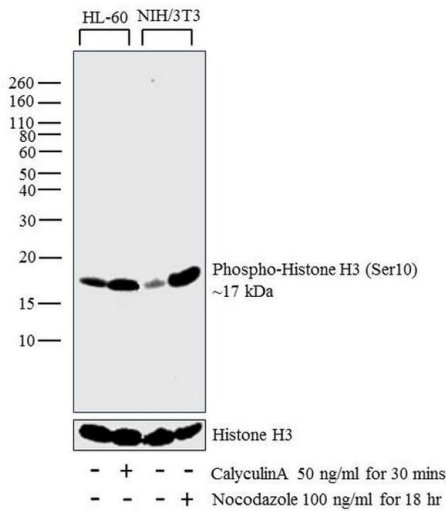
This antibody is not cross-reactive with other phosphorylated histones or with acetylated histones.

Product Images For Phospho-Histone H3 (Ser10) Polyclonal Antibody



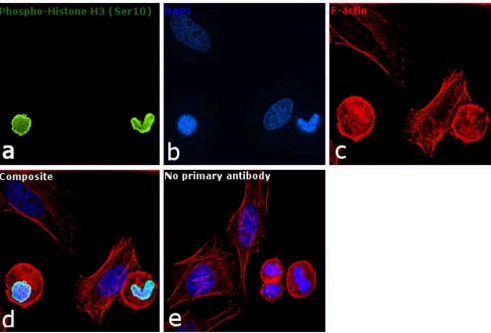
Phospho-Histone H3 (Ser10) Antibody (PA5-17869)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot analysis of Phospho-Histone H3 (Ser10) using Phospho-Histone H3 (Ser10) antibody (Product # PA5-17869), shows increased expression of phosphorylated Histone H3 on Ser 10 upon CalyculinA treatment in HL-60 cell line and Nocodazole treatment in NIH/3T3 cell line. {TM}



Phospho-Histone H3 (Ser10) Antibody (PA5-17869) in WB

Western blot analysis was performed on acid extracts (20 µg lysate) of HL-60 (Lane 1), HL-60 treated with Calyculin A (50 ng/mL for 30 minutes) (Lane 2), NIH /3T3 (Lane 3) and NIH/3T3 treated with Nocodazole (100 ng/mL for 18 hours) (Lane 4). The blot was probed with Anti-Phospho-Histone H3 (Ser10) (Product # PA5-17869, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 17 kDa band corresponding to Phospho-Histone H3 (Ser10) was observed across the cell lines tested and enhanced upon treatment.



Phospho-Histone H3 (Ser10) Antibody (PA5-17869)

Detection of differential subcellular localization of the target protein demonstrates antibody specificity. Immunofluorescence analysis of Phospho-Histone H3 (Ser10) using anti-Phospho-Histone H3(Ser10) Polyclonal antibody (Product # PA5-17869) shows localization of Phospho-Histone H3 (Ser 10) predominantly in nucleus of dividing HeLa cells. {RE}

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Western Blot (7)

<p>PLoS genetics</p> <p>Functional assessment of the "two-hit" model for neurodevelopmental defects in Drosophila and X. laevis.</p> <p>"Published figure using Phospho-Histone H3 (Ser10) polyclonal antibody (Product # PA5-17869) in Western Blot"</p> <p>Authors: Pizzo L,Lasser M,Yusuff T,Jensen M,Ingraham P,Huber E,Singh MD,Monahan C,Iyer J,Desai I,Karthikeyan S, Gould DJ,Yennawar S,Weiner AT,Pounraja VK,Krishnan A,Rolls MM,Lowery LA,Girirajan S</p>	<p>Year 2021</p> <p>Species Fruit fly</p> <p>Dilution 1:500</p>
<p>Scientific reports</p> <p>Loss of FOXF1 expression promotes human lung-resident mesenchymal stromal cell migration via ATX/LPA/LPA1 signaling axis.</p> <p>"PA5-17869 was used in Western Blotting to identify FOXF1 as a novel transcriptional repressor of ATX and demonstrate that loss of FOXF1 promotes LR-MSC migration via the ATX/LPA/LPA1 signalling axis."</p> <p>Authors: Cao P,Walker NM,Braeuer RR,Mazzoni-Putman S,Aoki Y,Misumi K,Wheeler DS,Vittal R,Lama VN</p>	<p>Year 2020</p> <p>Species Human</p> <p>Dilution 1:500</p>

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Immunohistochemistry (10)

<p>Pain</p> <p>Elevated 18:0 lysophosphatidylcholine contributes to the development of pain in tissue injury.</p> <p>"PA5-17869 was used in Immunohistochemistry-immunofluorescence to report that, amongst other important metabolite changes, lysophosphatidylcholines (LPCs) including 18:0 LPC exhibit significant and consistent local burn injury-induced changes in concentration."</p> <p>Authors: Friston DA,Cuddihy J,Souza Luiz J,Truong AH,Ho L,Basra M,Santha P,Oszlacs O,de Sousa Valente J, Marczylo T,Junttila S,Laycock H,Collins D,Vizcaychipi M,Gyenesei A,Takats Z,Jancso G,Want E,Nagy I</p>	<p>Year 2023</p> <p>Species Rat</p>
<p>Frontiers in cell and developmental biology</p> <p>MicroRNA Signatures of the Developing Primate Fovea.</p> <p>"Published figure using Phospho-Histone H3 (Ser10) polyclonal antibody (Product # PA5-17869) in Immunohistochemistry"</p> <p>Authors: Fishman ES,Louie M,Miltner AM,Cheema SK,Wong J,Schlaeger NM,Moshiri A,Simó S,Tarantal AF,La Torre A</p>	<p>Year 2022</p>

[View more IHC references on thermofisher.cn](#)

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- IHC (PFA) (1)
- ICC/IF (7)
- Flow (1)
- Misc (1)

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