

Phospho-Histone H3 (Ser28) Monoclonal Antibody (HTA28), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HTA28
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784759

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	-

Product Specific Information

Description: The HTA28 monoclonal antibody recognizes phosphorylated serine 28 of human, mouse, rat, bovine, and hamster histone H3. This 15 kDa protein is a component of eukaryotic chromatin that is involved in forming the nucleosome structure. Histone H3 can be phosphorylated at serine 10 and serine 28. Studies have demonstrated that phosphorylation at serine 28 is mediated by MSK1 following activation by the MAP kinase signaling pathway in response to tumor promoters (e.g., UV and EGF) and oncoproteins (e.g., c-Myc, c-Jun, and c-Fos). Histone H3 serine 28 phosphorylation has been linked to chromosome condensation during mitosis, cell transformation, and regulation of RNA polymerase III transcription machinery.

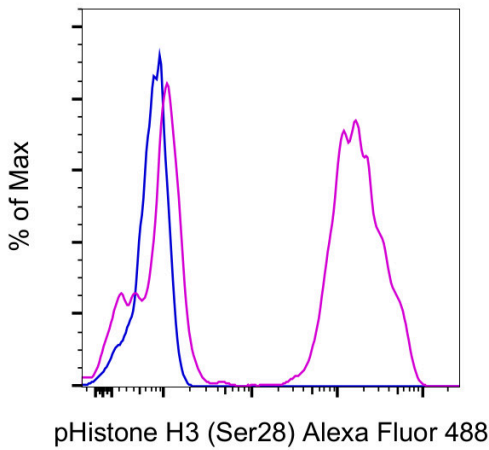
Applications Reported: This HTA28 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HTA28 antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of nocodazole-treated HeLa cells. This may be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Protocols: We recommend using Protocol A: Two-step protocol: intracellular (cytoplasmic) proteins or Protocol C: Two-step protocol: Fixation/Methanol. Protocol B: One-step protocol: intracellular (nuclear) proteins cannot be used. All Protocols can be found in the "Staining intracellular Antigens for Flow Cytometry Protocol" located in the Best Protocols Section under the Resources tab online.

Excitation: 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser

Product Images For Phospho-Histone H3 (Ser28) Monoclonal Antibody (HTA28), Alexa Fluor™ 488, eBioscience™



Phospho-Histone H3 (Ser28) Antibody (53-9124-82) in Flow

Intracellular staining of 24-hour nocodazole-treated HeLa cells with 0.25 µg of Rat IgG2a K Isotype Control, Alexa Fluor 488 (Product # 53-4321-80) (blue histogram) or 0.25 µg of phospho-Histone H3 (Ser28) Monoclonal Antibody, Alexa Fluor 488 (purple histogram) using the IC staining protocol: Two-step protocol for (cytoplasmic) intracellular proteins. Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 780 (Product # 65-0865-18).

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