

Histone H3 Recombinant Rabbit Monoclonal Antibody (17H2L9), Alexa Fluor™ 488

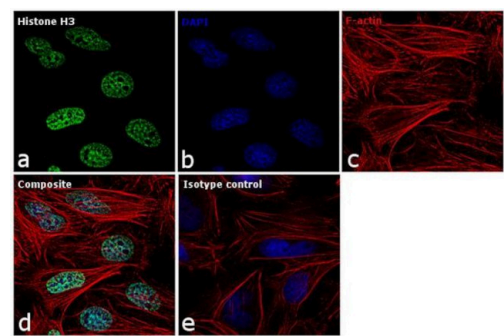
| Product Details | |
|-------------------------|--|
| Size | 50 µL |
| Species Reactivity | Human |
| Host/Isotype | Rabbit / IgG |
| Expression system | Expi293 |
| Class | Recombinant Monoclonal |
| Type | Antibody |
| Clone | 17H2L9 |
| Conjugate | Alexa Fluor™ 488 |
| Excitation/Emission Max | 499/520 nm |
| Immunogen | Synthetic peptide corresponding to the N-terminal region of human Histone H3 (aa 4-11) |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Protein A |
| Storage buffer | PBS, pH 7.4, with 1mg/mL BSA |
| Contains | 0.05% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2663071 |

| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|--------------|
| Immunocytochemistry (ICC/IF) | 5 µg/mL | - |

Product Specific Information

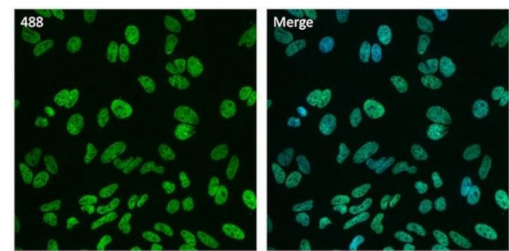
Since it is highly conserved across species, the antibody may react with many other species.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.



Histone H3 Antibody (MA7-02023-A488) in ICC/IF

Immunofluorescence analysis of Histone H3 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Histone H3 Alexa Fluor 488 (17H2L9) Recombinant Rabbit Monoclonal Antibody (Product # MA7-02023-A488) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree Celsius (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e shows the isotype control. The images were captured at 60X magnification.



Histone H3 Antibody (MA7-02023-A488) in ICC/IF

Immunofluorescent analysis of Histone H3 (green) in HeLa cells. The cells were fixed with 4% Paraformaldehyde in PBS for 15 minutes at room temperature, and blocked with 3% BSA in PBS (Product # 37525) for 30 minutes at room temperature. Cells were stained with a Histone H3 Monoclonal Antibody, AlexaFluor 488 conjugate (Product # MA7-02023-A488) at a dilution of 5 µg/mL in blocking buffer for 1 hour at room temperature protected from light. Nuclei (blue) were stained with Hoechst Dye (Product # 62249) at a dilution of 1:10,000 in blocking buffer. Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.

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