

# HDAC3 Monoclonal Antibody (7G6C5)

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotope	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	7G6C5
Conjugate	Unconjugated
Immunogen	Purified recombinant fragment of human HDAC3 (aa224-428) expressed in E. Coli.
Form	Liquid
Storage buffer	ascites
Contains	0.03% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_10986336

Applications	Tested	Dilution	Published
ChIP assay (ChIP)	✓	4 µl/10 <sup>6</sup> cells	
Immunocytochemistry (ICC)	✓	1:200-1:1000	
Immunofluorescence (IF)	✓	1:200-1:1000	
Western Blot (WB)	✓	1/500 - 1/2000	

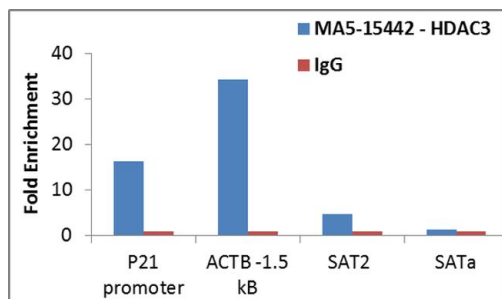
## Product Specific Information

MA5-15442 targets HDAC3 in IF, ChIP and WB applications and shows reactivity with Human samples.

The MA5-15442 immunogen is purified recombinant fragment of human HDAC3 (aa224-428) expressed in E. Coli.

MA5-15442 detects HDAC3 which has a predicted molecular weight of approximately 48.8kDa.

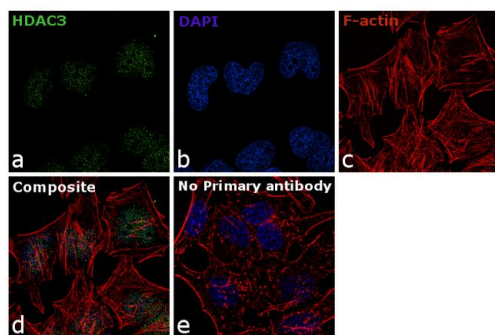
## Advanced Verification Data



### HDAC3 Antibody (MA5-15442)

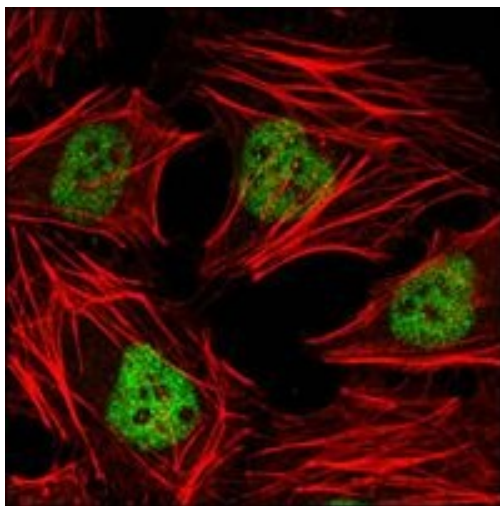
Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Anti-HDAC3 Monoclonal Antibody (Product # MA5-15442) using PCR primer pairs over P21 promoter, ACTB upstream region (active) and SAT2 satellite repeats, SAT alpha (inactive). Relative expression validation info.

## Product Images For HDAC3 Monoclonal Antibody (7G6C5)



### HDAC3 Antibody (MA5-15442) in IF

Immunofluorescence analysis of HDAC3 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 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with HDAC3 Monoclonal Antibody (7G6C5)(Product # MA5-15442) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



### HDAC3 Antibody (MA5-15442) in IF

Immunofluorescence analysis of HeLa cells using HDAC3 monoclonal antibody (Product # MA5-15442) (Green). Red: Actin filaments have been labeled with DY-554 phalloidin.

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