# H3K9ac Recombinant Rabbit Monoclonal Antibody (17H12L11)

## **Product Details**

Size	100 µg	
Species Reactivity	Fruit fly, Human, Rat	
Host/Isotype	Rabbit / IgG	
Expression system	Expi293	
Class	Recombinant Monoclonal	
Туре	Antibody	
Clone	17H12L11	
Conjugate	Unconjugated	
Immunogen	Acetylated peptide corresponding to amino acids 6-12 of human Histone H3 [AcK9]	
Form	Liquid	
Concentration	0.5 mg/mL	
Purification	Protein A	
Storage buffer	PBS	
Contains	0.09% sodium azide	
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	
RRID	AB_2532451	

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1500	-
Immunocytochemistry (ICC/IF)	1-2 µg	-
Peptide array (Array)	0.25 μg/mL	-

## **Product Specific Information**

701269 was successfully used to detect H3K9ac in WB, IF, IHC, ChIP and flow applications.

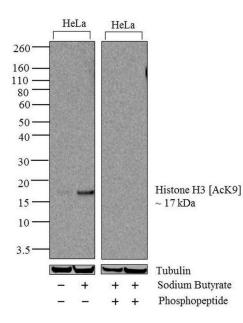
This antibody is predicted to react with mouse, rat, non-human primate and rabbit based on sequence homology.

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

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.

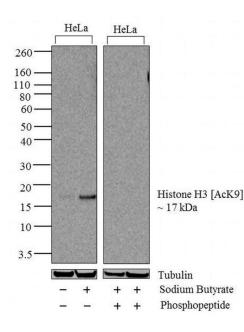
# Product Images For H3K9ac Recombinant Rabbit Monoclonal Antibody (17H12L11)

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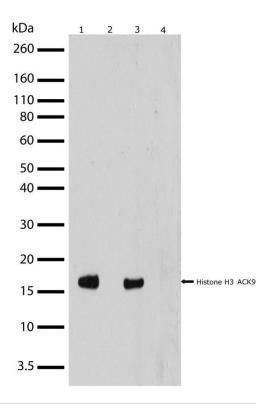
#### H3K9ac Antibody (701269) in WB

Western blot analysis of Histone H3 (AcK9) was performed by loading 20 µg of HeLa (lane1) and HeLa treated for 12 hr with 5 mM of Sodium Butyrate (lane2) cell lysates using Novex®NuPAGE®4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # El0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. Histone H3 (AcK9) was detected at ~17 kDa using Histone H3 (AcK9) Recombinant Rabbit Monoclonal Antibody (Product # 701269) at 1 µg-3 µg/mL in 5 % skim milk at 4°C overnight on a rocking platform. To confirm specificity, competition was performed with phosphopeptide (10 µg/mL) as shown in corresponding blot on right. Goat anti-Rabbit IgG-HRP Secondary Antibody (Product # G-21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce<sup>TM</sup> ECL Western blotting Substrate (Product # 32106).





Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of Acetyl-Histone H3 (Lys9) using Acetyl-Histone H3 (Lys9) Antibody (17H12L11), Recombinant Rabbit Monoclonal (Product # 701269), shows increased expression of Acetyl-Histone H3 (Lys9) in HeLa cells upon sodium butyrate treatment. {TM}



#### H3K9ac Antibody (701269) in WB

Western blot analysis of Acetyl-Histone Lys9 in whole cell extracts from serumstarved HeLa cells treated with sodium butyrate (5mM) (lanes 1 and 3) using an Acetyl-Histone Lys9 recombinant rabbit monoclonal antibody (Product # 701269) at a dilution of 2 µg/mL. To confirm specificity, competition was performed by preincubation with acetylated peptide to inhibit antibody binding (lanes 2 and 4). Samples were detected using chemiluminescence (ECL). Results show a band at ~17kDa.

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