

p300 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues G(139) T S G P N Q G P T Q S T(151) C in the nuclear factor binding domain of human p300.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325902

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	5 µg/mL	-
ChIP assay (ChIP)	2.5 µg/10 ⁶ cells	3 Publications

Product Specific Information

PA1-848 detects p300 from human cells.

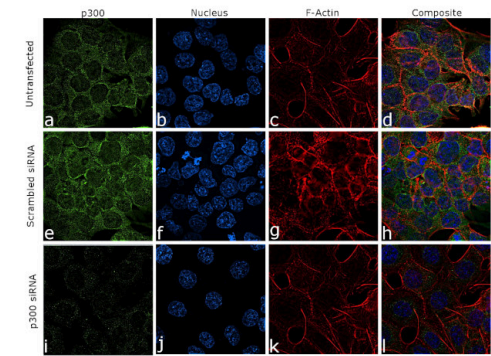
PA1-848 has been successfully used in Western blot and ChIP procedures. By Western blot, this antibody detects an ~265 kDa protein representing p300 from HeLa cell lysate.

The PA1-848 immunogen is a synthetic peptide corresponding to residues G(139) T S G P N Q G P T Q S T(151) C in the nuclear factor binding domain of human p300. The PA1-848 immunizing peptide (Cat. # PEP-053) is available for use in neutralization and control experiments.

Product Images For p300 Polyclonal Antibody

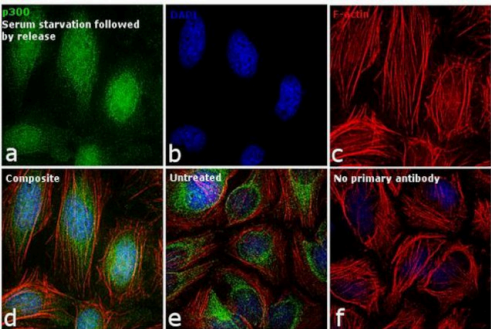
p300 Antibody (PA1-848)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HCT 116 cells were transfected with p300 siRNA and decrease in signal intensity was observed in ICC application using Anti-p300 Polyclonal Antibody (Product # PA1-848). {KD}



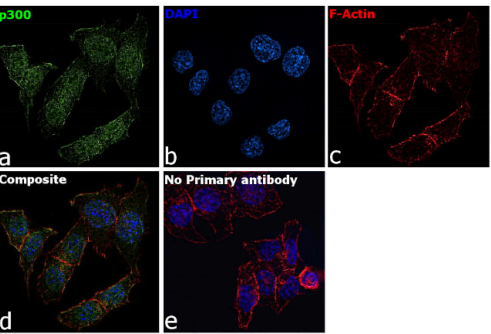
p300 Antibody (PA1-848) in ICC/IF

Immunofluorescence analysis of p300 was performed using 70% confluent serum starved and released 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 p300 Rabbit polyclonal antibody (Product # PA1-848) at 5 µg/mL in 0.1% BSA, incubated overnight at 4 degree Celsius and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (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 represents the untreated cells showing cytoplasmic localization of p300. Panel f shows control cells with no primary antibody to assess background. The images were captured at 60X magnification.



p300 Antibody (PA1-848) in ICC/IF

Immunofluorescence analysis of p300 Polyclonal Antibody was performed using 70% confluent log phase HCT 116 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with p300 Polyclonal Antibody (Product # PA1-848) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), 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, 1:300 dilution). Panel d represents the merged image showing nuclear as well as cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification. (Ref: <https://doi.org/10.1371/journal.pbio.3000732>).



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Western Blot (2)

<p>Nucleic acids research</p> <p>DYRK1A interacts with histone acetyl transferase p300 and CBP and localizes to enhancers.</p> <p>"PA1-848 was used in Western Blotting to identify two histone acetyltransferases, p300 and CBP, as interaction partners of DYRK1A through a proteomics study."</p> <p>Authors: Li S,Xu C,Fu Y,Lei PJ,Yao Y,Yang W,Zhang Y,Washburn MP,Florens L,Jaiswal M,Wu M,Mohan M</p>	<p>Year 2018</p> <p>Species Human</p>
<p>Molecular endocrinology (Baltimore, Md.)</p> <p>Research resource: identification of novel coregulators specific for thyroid hormone receptor-2.</p> <p>"PA1-848 was used in Western Blotting to identify a series of previously unrecognized proteins that selectively interact with thyroid hormone receptor2, compared with the more widely expressed TR1."</p> <p>Authors: Hahm JB,Privalsky ML</p>	<p>Year 2013</p> <p>Species Human</p>

ChIP assay (3)

<p>The Journal of clinical investigation</p> <p>MEF2D sustains activation of effector Foxp3+ Tregs during transplant survival and anticancer immunity.</p> <p>"PA1-848 was used in Chromatin immunoprecipitation to study the role played by MEF2D in sustaining effector Foxp3+ Treg functions without abrogating their basal actions suggests its suitability for drug discovery efforts in cancer therapy."</p> <p>Authors: Di Giorgio E,Wang L,Xiong Y,Akimova T,Christensen LM,Han R,Samanta A,Trevisanut M,Bhatti TR,Beier UH,Hancock WW</p>	<p>Year 2020</p> <p>Species Mouse</p>
<p>Nature immunology</p> <p>Blocking elevated p38 MAPK restores efferocytosis and inflammatory resolution in the elderly.</p> <p>"PA1-848 was used in ChIP assay to conclude that inhibiting p38 in elderly individuals rejuvenated their resolution response to be more similar to that of younger people."</p> <p>Authors: De Maeyer RPH,van de Merwe RC,Louie R,Bracken OV,Devine OP,Goldstein DR,Uddin M,Akbar AN,Gilroy DW</p>	<p>Year 2020</p> <p>Species Human</p>

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