

MECP2 Polyclonal Antibody

Product Details	
Size	50 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Fruit fly, Non-human primate, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic Peptide: M(1) V A G M L G L R E E K S E D(15) C
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_2143845

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1500	6 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:2,000	-
Immunocytochemistry (ICC/IF)	1:100-1:200	1 Publication
Immunoprecipitation (IP)	Assay-dependent	-

Product Specific Information

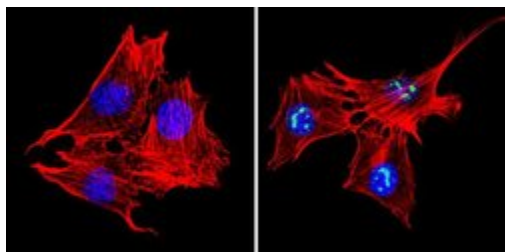
PA1-887 detects methyl CpG binding protein 2 (MeCP2) from human, mouse and rat tissues and cells.

PA1-887 has been successfully used in Western blot, IHC-P, immunofluorescence and immunoprecipitation procedures. By Western blot, this antibody detects an ~56 kDa protein representing MeCP2 from AtT20 cell extract.

PA1-887 immunizing peptide corresponds to amino acid residues 1-15 from mouse MeCP2. This sequence is completely conserved in human MeCP2. PA1-887 immunizing peptide (Cat. # PEP-120) is available for use in neutralization and control experiments.

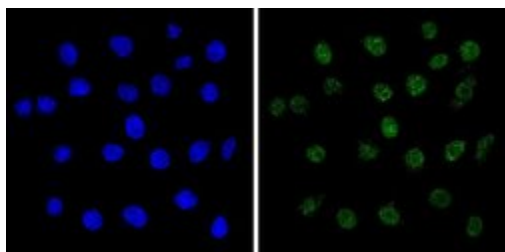
Product Images For MECP2 Polyclonal Antibody

MECP2 Antibody (PA1-887) in ICC/IF



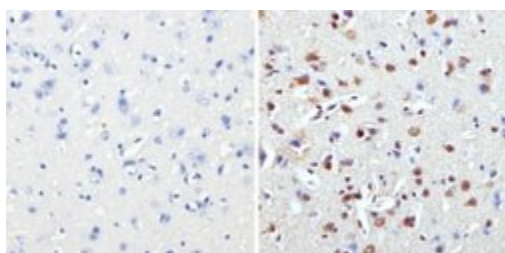
Immunofluorescent analysis of Methyl CpG Binding Protein 2 (green) showing staining in the nucleus of C2C12 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Methyl CpG Binding Protein 2 polyclonal antibody (Product # PA1-887) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Actin was stained using Alexa Fluor 554 (red) and nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.

MECP2 Antibody (PA1-887) in ICC/IF



Immunofluorescent analysis of Methyl CpG Binding Protein 2 (green) showing staining in the nucleus of C6 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Methyl CpG Binding Protein 2 polyclonal antibody (Product # PA1-887) in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.

MECP2 Antibody (PA1-887) in IHC (P)



Immunohistochemistry analysis of Methyl CpG Binding Protein 2 showing staining in the nucleus of paraffin-embedded mouse brain tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a Methyl CpG Binding Protein 2 polyclonal antibody (Product # PA1-887) diluted in 3% BSA-PBS at a dilution of 1:500 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

[View more figures on thermofisher.com](https://www.thermofisher.com)

10 References

Western Blot (6)

PloS one

Apoptotic Activity of MeCP2 Is Enhanced by C-Terminal Truncating Mutations.

"PA1-887 was used in western blot study the function of the MeCP2 C-terminus"

Authors: Williams AA,Mehler VJ,Mueller C,Vonhoff F,White R,Duch C

Species
Fruit fly

Dilution
1:5000

Year
2017

PloS one

Rett Syndrome Mutant Neural Cells Lacks MeCP2 Immunoreactive Bands.

"PA1-887 was used in Western Blotting to advance understanding of multiple MeCP2 immunoreactive bands in control neural cells and p.T158M MeCP2e1 mutant cells."

Authors: Bueno C,Tabares-Seisdedos R,Moraleda JM,Martinez S

Species
Human

Dilution
Not Cited

Year
2016

[View more WB references on thermofisher.com](#)

Immunohistochemistry (3)

Frontiers in psychiatry

The Effects of Maternal Separation on Adult Methamphetamine Self-Administration, Extinction, Reinstatement, and MeCP2 Immunoreactivity in the Nucleus Accumbens.

"PA1-887 was used in immunohistochemistry to study adult methamphetamine self-administration, methamphetamine-seeking behaviour and nucleus accumbens MeCP2 levels following maternal separation in rats"

Authors: Lewis CR,Staudinger K,Scheck L,Olive MF

Species
Rat

Dilution
1:200

Year
2013

Human molecular genetics

Multiple pathways regulate MeCP2 expression in normal brain development and exhibit defects in autism-spectrum disorders.

"PA1-887 was used in immunohistochemistry to study the regulatory mechanisms of the MeCP2 expression during brain development"

Authors: Samaco RC,Nagarajan RP,Braunschweig D,LaSalle JM

Species
Human

Dilution
Not Cited

Year
2004

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

ICC/IF (1)

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