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Datasheet for ABIN5663752
anti-MECP2 antibody (AA 1-280)

5 Images

Overview

Quantity:	100 µL
Target:	MECP2
Binding Specificity:	AA 1-280
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-280 of human MECP2 (NP_004983.1).
Sequence:	MVAGMLGLRE EKSEDQLQG LKDKPLKFKK VKKDKKEEKE GKHEPVQPSA HHAEPAEAG KAETSEGS GS APAPVEASAS PKQRRSIIRD RGPMYDDPTL PEGWTRKLLKQ RKSGRSAGKY DVYLINPQGK AFRSKVELIA YFEKVGDTSL DPNDFDFTVT GRGSPSRREQ KPPKKPKSPK APGTGRGRGR PKGSGTTRPK AATSEGVQVK RVLEKSPGKL LVKMPFQTSP GGKAEGGGAT TSTQVMVIKR PGRKRKAEAD PQAIPKKRGR KPGSVVAAAA
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

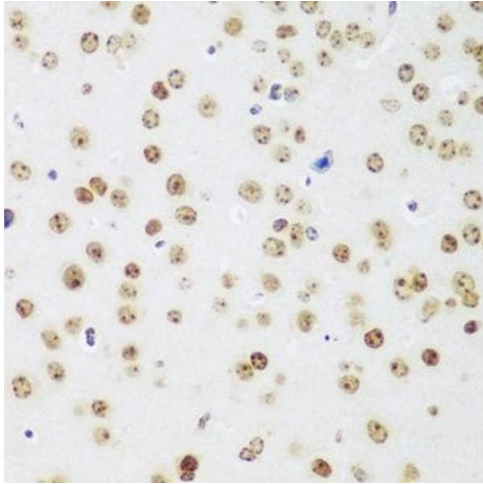
Target:	MECP2
Alternative Name:	MECP2 (MECP2 Products)
Background:	<p>DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. In contrast to other MBD family members, MECP2 is X-linked and subject to X inactivation. MECP2 is dispensible in stem cells, but is essential for embryonic development. MECP2 gene mutations are the cause of most cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females. Alternative splicing results in multiple transcript variants encoding different isoforms.,MECP2,AUTSX3,MRX16,MRX79,MRXS13,MRXSL,PPMX,RS,RTS,RTT,Epigenetics & Nuclear Signaling,RNA Binding,Neuroscience,Neurodegenerative Diseases,MECP2</p>
Molecular Weight:	52 kDa/53 kDa
Gene ID:	4204
UniProt:	P51608
Pathways:	Inositol Metabolic Process , Chromatin Binding , Synaptic Membrane

Application Details

Application Notes:	WB,1:500 - 1:1000,IHC,1:50 - 1:100
Restrictions:	For Research Use only

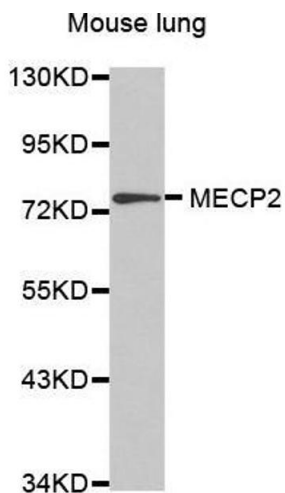
Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



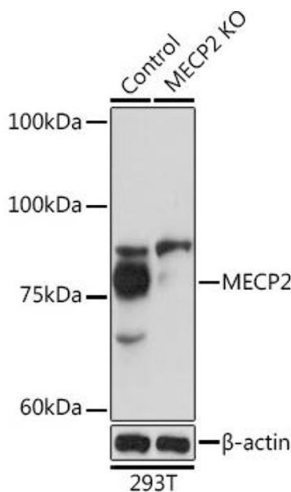
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse brain using MECP2 antibody (ABIN1680812, ABIN1680811, ABIN5663752 and ABIN6213962) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2.



Western Blotting

Image 3. Western blot analysis of extracts from normal (control) and MECP2 Rabbit pAb knockout (KO) 293T cells, using MECP2 Rabbit pAb antibody (ABIN1680812, ABIN1680811, ABIN5663752 and ABIN6213962) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN5663752.