Datasheet for ABIN655914

anti-MECP2 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	MECP2
Binding Specificity:	AA 58-87, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MECP2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This MeCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-87 amino acids from the N-terminal region of human MeCP2.
Clone:	RB27934
Isotype:	Ig Fraction
Predicted Reactivity:	Pr, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MECP2

Target Details

Alternative Name:	MeCP2 (MECP2 Products)
Background:	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. [provided by RefSeq].
Molecular Weight:	52441
Gene ID:	4204
NCBI Accession:	NP_001104262, NP_004983
UniProt:	P51608
Pathways:	Inositol Metabolic Process, Chromatin Binding, Synaptic Membrane

Application Details

Application Notes:	WB: 1:500. WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

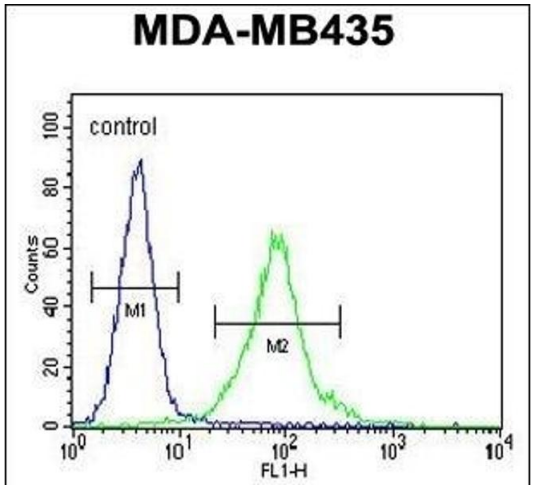
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Handling

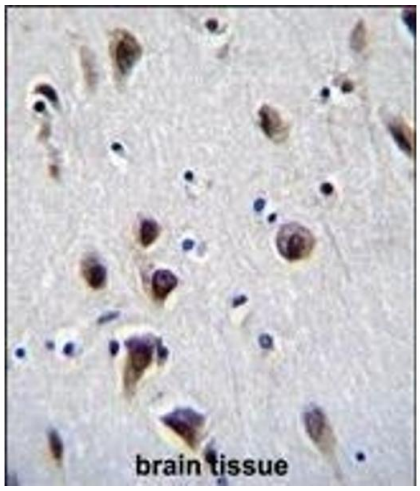
Expiry Date:	6 months

Images



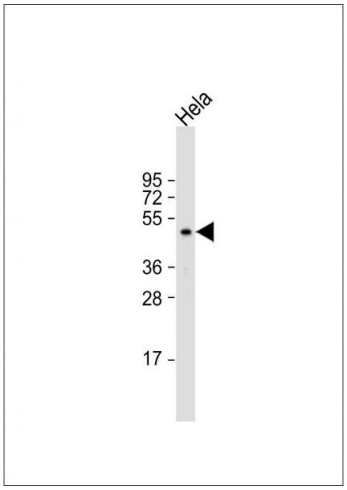
Flow Cytometry

Image 1. MeCP2 Antibody (N-term S80) (ABIN655914 and ABIN2845313) flow cytometric analysis of MDA-M cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. MeCP2 Antibody (N-term S80) (ABIN655914 and ABIN2845313) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MeCP2 Antibody (N-term S80) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 3. Anti-MeCP2 Antibody (N-term S80) at 1:500 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.