Datasheet for ABIN650833

anti-MECP2 antibody (pSer423)

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Overview

Quantity:	400 µL
Target:	MECP2
Binding Specificity:	pSer423
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MECP2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This MeCP2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S423 of human MeCP2.
Clone:	RB29261
Isotype:	IgG
Predicted Reactivity:	Pr, M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MECP2
Alternative Name:	MeCP2 (MECP2 Products)

Target Details

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 some cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females.
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: 1:500. WB: 1:500. IHC-P-Leica: 1:500
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.
Handling Advice:	Avoid freeze-thaw cycles.
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.

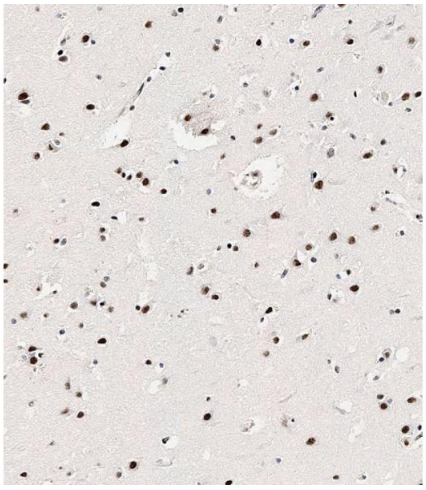
Handling

Expiry Date:	6 months

Publications

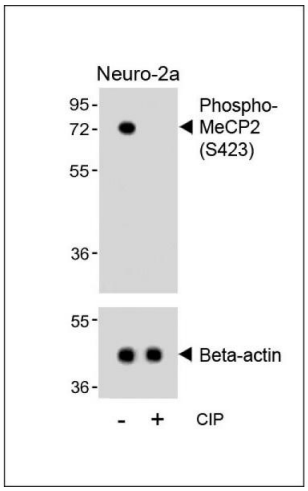
Product cited in:	Hu, Zhou, Zhao, Wu: "Integrin α6/Akt/Erk signaling is essential for human breast cancer resistance to radiotherapy." in: **Scientific reports**, Vol. 6, pp. 33376, (2018) (PubMed).

Images



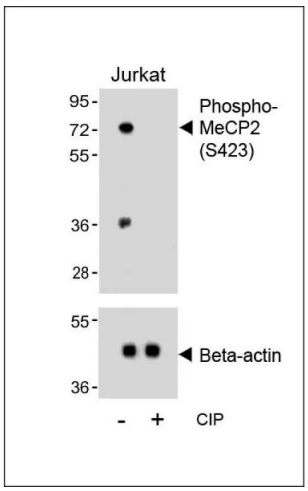
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin-embedded Human brain tissue using (ABIN650833 and ABIN2839800) performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH 9. 0). Samples were incubated with primary Antibody (1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Western Blotting

Image 2. Western blot analysis of lysates from Neuro-2a cell line, untreated or treated with calf intestinal alkaline phosphatase(CIP), using Phospho-MeCP2 Antibody (upper) or Beta-actin (lower).



Western Blotting

Image 3. Western blot analysis of lysates from Jurkat cell line, untreated or treated with calf intestinal alkaline phosphatase(CIP), using Phospho-MeCP2 Antibody (upper) or Beta-actin (lower).

Please check the product details page for more images. Overall 4 images are available for ABIN650833.