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Product datasheet for TA347245

MECP2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA (1:100 ?? 1:500); Western blotting (1:2,000)
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-MeCP2 antibody: human MeCP2 (Methyl-CpG-binding domain protein 2), using 3 different KLH-conjugated synthetic peptides containing an amino acid sequence from the N-terminal, the central and the C-terminal part of the protein, respec
Concentration:	lot specific
Purification:	Whole antiserum from rabbit containing 0.05% azide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	methyl-CpG binding protein 2
Database Link:	NP_004983 Entrez Gene 4204 Human P51608
Background:	MeCP2 (UniProt/Swiss-Prot entry P51608) is a chromosomal protein with abundant binding sites in chromatin. It belongs to the family of methyl CpG binding proteins which also comprises MBD1, MBD2, MBD3 and MBD4. MeCP2 can bind specifically to methylated promoters, thereby repressing transcription. This transcriptional repression is mediated through interaction with histone deacetylase and the corepressor SIN3A. MeCP2 also is essential for development. Mutations in MeCP2 are the cause of several types of mental retardation including Rett syndrome, a progressive neurological disorder that causes mental retardation in females, and mental retardation syndromic X-linked type 13, and may also be involved in Angelman syndrome and susceptibility to some types of autism.

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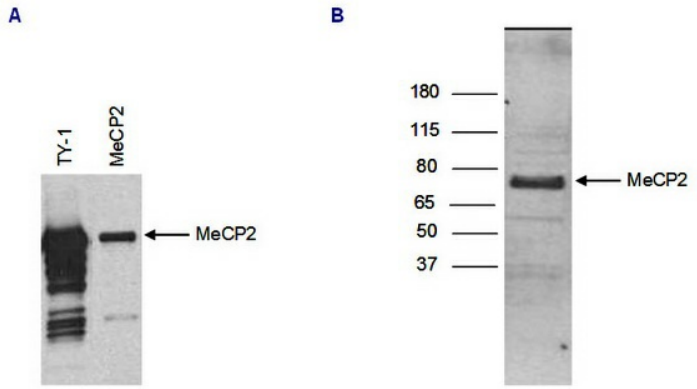
Synonyms: AUTSX3; MRX16; MRX79; MRXS13; MRXSL; PPMX; RS; RTS; RTT

Protein Families: Druggable Genome

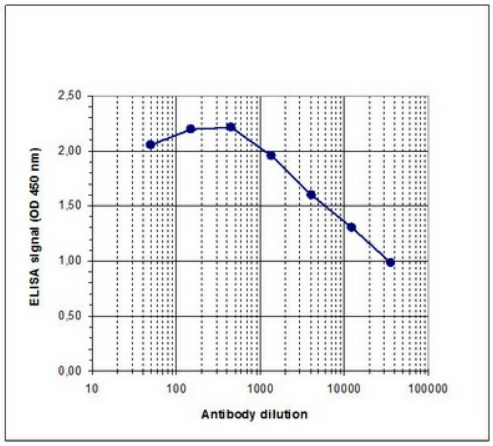
Product images:

Figure 2



WB analysis with the antibody against the TY1-tag (lane 1) and with the antibody against MeCP2 (lane 2), diluted 1:2,000 in TBST containing 3% milk powder.Figure 2B: WB was performed on nuclear extracts from the human leukemic monocyte lymphoma cell line U937 (60 ug) with the antibody against human MeCP2, diluted 1:2,000 in TBST containing 3% milk powder. A molecular weight marker (in kDa) is shown on the left. The location of the protein of interest is indicated on the right.

Figure 1



Determination of the titer.To determine the titer, an ELISA was performed using a serial dilution of the antibody against human MeCP2, in antigen coated wells. The wells were coated with the peptide used for immunisation of the rabbit. By plotting the absorbance against the antibody dilution (Figure 1), the titer of the antibody was estimated to be 1:25,000.