

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse MBD4 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MBD4 Met382-Ser580 Accession # O95243
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

MBD4 (Methyl CpG-binding domain protein 4; also MED1) is a 65-68 kDa member of the methyl CpG binding protein family. It is expressed in non-germline cells, and serves at least two functions: one, it interacts with FADD to up- or down-regulate apoptosis, and two, it acts as a DNA N-glycosylase that excises improper chromosomal thymines that are created through the spontaneous deamination of methylcytosine to thymine. Human MBD4 is 580 amino acids (aa) in length. It contains one DNA-binding MBD domain (aa 76-148) and one endonuclease domain (aa 455-580). There are three isoform variants. One shows a deletion of aa 395-400, another shows an AlaPro substitution for aa 539-580, and a third shows a Gln substitution for aa 83-401. Over aa 382-580, human MBD4 shares 90% aa identity with mouse MBD4.

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