

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MBD3 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MBD3 isoform 2 Met1-Val259 Accession # AAH43619
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

MBD3 (methyl-CpG-binding domain protein # 3) is a 38-40 kDa member of the MBD family of transcriptional repressors. Through its MBD, and as part of a large complex of regulatory proteins, it binds methylated DNA, promoting gene silencing during S phase. Although it can homodimerize, it is only active when heterodimerized with MBD2. Human MBD3 is 291 amino acids (aa) in length, and contains an N-terminal methyl binding domain (aa's 1-72) and a C-terminal coiled-coil region (aa's 216-245) that may be involved in protein-protein interaction. Human MBD3 shares 95% aa identity with mouse, rat, and canine MBD3, with differences essentially limited to the C-terminal 25 amino acids.

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