

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human MBD3

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.