

## Anti-MBD2 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: RP1049-Fluoro647

### About MBD2

Methyl-CpG-binding domain protein 2 is a protein that in humans is encoded by the MBD2 gene. It is mapped to 18q21.2. 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. DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. The protein encoded by this gene may function as a mediator of the biological consequences of the methylation signal. It is also reported that this protein functions as a demethylase to activate transcription, as DNA methylation causes gene silencing.

### Overview

Product Name	Anti-MBD2 Antibody Picoband® Fluoro647 Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q9UBB5

### Technical Details

Immunogen	E.coli-derived human MBD2 recombinant protein (Position: W159-A411). Human MBD2 shares 98% amino acid (aa) sequence identity with mouse MBD2.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro647 Excitation Wavelength: 650 nm Emission Wavelength: 665 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

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