

Product Datasheet

MBD3 Antibody (106B691) - BSA Free NB100-56534SS

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56534SS

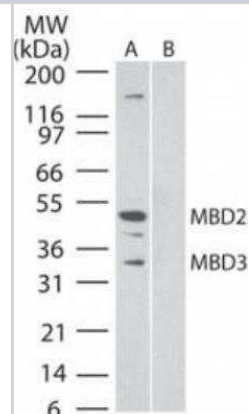
MBD3 Antibody (106B691) - BSA Free

Product Information	
Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	106B691
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	53615
Gene Symbol	MBD3
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 17546630).
Specificity/Sensitivity	The theoretical molecular weight of human MBD2 (411 amino acids) is 45 kDa and human MBD3 (291 amino acids) is 33 kDa. Based on sequence identity, this will detect human, mouse, and rat MBD3 (100%), and human and mouse MBD2 (93%).
Immunogen	Between amino acids 200-250 of human MBD3 protein were used as the immunogen.
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunocytochemistry
Recommended Dilutions	Western Blot 2 ug/mL, Chromatin Immunoprecipitation, Flow Cytometry 1 ug / million cells, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunocytochemistry



Images

Western Blot: MBD3 Antibody (106B691) [NB100-56534] - Analysis of MBD2 and MBD3 using this antibody. HeLa cell lysate (nuclear fraction) probed with MBD3/2 antibody at 2 ug/ml in the A) absence and B) presence of immunizing peptide.



Immunohistochemistry-Paraffin: MBD3 Antibody (106B691) [NB100-56534] - MBD3 was detected in immersion fixed paraffin-embedded sections of human placenta using Mouse Anti-Human MBD3 (106B691) Monoclonal Antibody (Catalog # NB100-56534) at 1:300 for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell nuclei in horionic villi.



Publications

Ruddock-D'Cruz NT, Xue J, Wilson KJ et al. Dynamic changes in the localization of five members of the methyl binding domain (MBD) gene family during murine and bovine preimplantation embryo development. *Mol Reprod Dev.* 2008-01-01 [PMID: 17546630] (WB, Mouse)

Details:

IF [bovine embryos (Fig 3) and mouse embryos (Fig 4)] and for WB [bovine heart, (supplementary data)] 1. MBD1 mAb (IMG-306) 2. MBD3/MBD2 mAb (IMG-296A) 3. MBD4 pAb (IMG-285).

Balmer D, Arredondo J, Samaco RC, LaSalle JM. MECP2 mutations in Rett syndrome adversely affect lymphocyte growth, but do not affect imprinted gene expression in blood or brain. *Hum Genet.* 2002-06-01 [PMID: 12107440]

Thatcher KN, Peddada S, Yasui DH, LaSalle JM. Homologous pairing of 15q11-13 imprinted domains in brain is developmentally regulated but deficient in Rett and autism samples. *Hum Mol Genet.* 2005-03-15 [PMID: 15689352]

Details:

ChIP (Fig 6): SH-SY5Y cells



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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