

MBD2 Polyclonal Antibody

Catalog Number PA5-35233

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	<div>Tested ApplicationsDilution *</div>	
Class	Polyclonal		
Type	Antibody	Western Blot (WB)	1:1,000
Immunogen	KLH conjugated synthetic peptide between 250-279 amino acids from the central region of human MBD2	Immunocytochemistry (ICC/IF)	1:10-1:50
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.25 mg/mL		
Purification	Protein A, Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with mouse based on sequence homology.

Background/Target Information

Heterochromatin protein-1 (HP1) is a methyl-lysine binding protein localized at heterochromatin sites, where it mediates gene silencing. It has been shown that mammalian methyltransferases that selectively methylate histone H3 on lysine-9 generate a binding site for HP1 proteins, a family of heterochromatic adaptor molecules implicated in both gene silencing and supranucleosomal chromatin structure. High-affinity in vitro recognition of a methylated histone H3 peptide by HP1 requires a functional chromodomain. Thus, the HP1 chromodomain is a specific interaction motif for the methyl epitope on lysine-9 of histone H3. In vivo, heterochromatin association of HP1 proteins is lost in Suv39h double-null primary mouse fibroblasts but is restored after reintroduction of a catalytically active SUV39H1 HMTase.

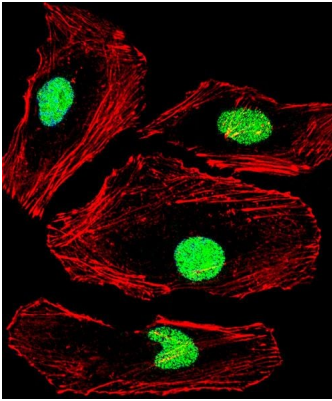
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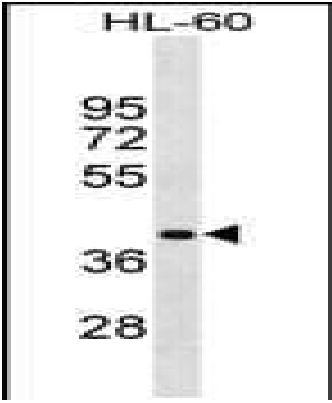
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Product Images For MBD2 Polyclonal Antibody



MBD2 Antibody (PA5-35233) in ICC/IF

Immunofluorescent analysis of MBD2 showing staining in the nucleus of HeLa cells using a MBD2 polyclonal antibody (Product # PA5-35233) followed by detection using a fluorescent conjugated secondary antibody (green). Cytoplasmic actin was stained with a fluorescent red phalloidin (7units/mL, 1 h at 37°C). Nuclei were stained with DAPI (blue) (10 µg/mL, 10 min).



MBD2 Antibody (PA5-35233) in WB

Western blot analysis of MBD2 in HL-60 cell lysate (35 µg/lane) using a MBD2 polyclonal antibody (Product # PA5-35233).

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