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Datasheet for ABIN2668981

anti-5-Hydroxymethylcytosine antibody

4 Images

52 Publications

Overview

Quantity:	100 µL
Target:	5-Hydroxymethylcytosine (5-hmC)
Host:	Rabbit
Clonality:	Polyclonal
Application:	Dot Blot (DB), Hydroxymethylated DNA immunoprecipitation (hmeDIP), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	This 5-Hydroxymethylcytosine antibody was raised against 5-hydroxymethylcytidine conjugated to KLH and recognizes 5-hydroxymethylcytosine.
Purification:	None

Target Details

Target:	5-Hydroxymethylcytosine (5-hmC)
Alternative Name:	5-Hydroxymethylcytosine (5-hmC Products)
Target Type:	Chemical

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-20 °C
Storage Comment:	Antibodies in solution can be stored at -20 °C for 2 years.

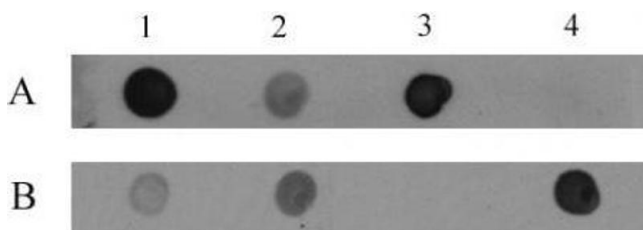
Publications

Product cited in: Teo, Ingale, Wolfert, Elsayed, Nöt, Chatham, Wells, Boons: "Glycopeptide-specific monoclonal antibodies suggest new roles for O-GlcNAc." in: **Nature chemical biology**, Vol. 6, Issue 5, pp. 338-43, (2010) ([PubMed](#)).

Comer, Vosseller, Wells, Accavitti, Hart: "Characterization of a mouse monoclonal antibody specific for O-linked N-acetylglucosamine." in: **Analytical biochemistry**, Vol. 293, Issue 2, pp. 169-77, (2001) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

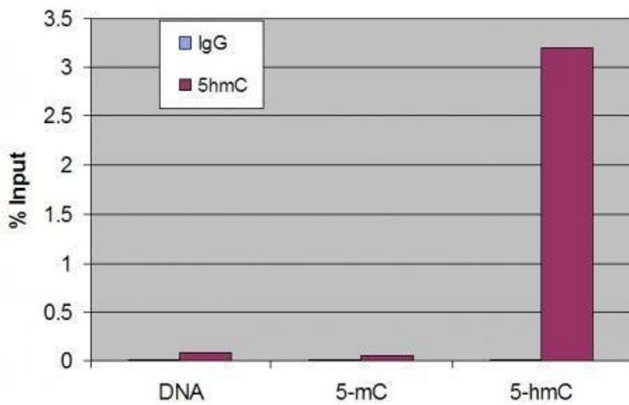
Images



Dot Blot

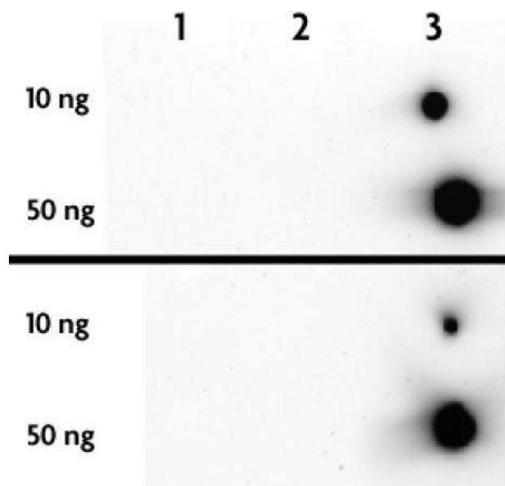
Image 1. 5-Hydroxymethylcytosine (5-hmC, 5-hydroxymethylcytidine) antibody tested by dot blot analysis. DNA samples were spotted onto positively charged nylon membrane and blotted with antibodies as indicated. Panel A: 5-Hydroxymethylcytosine antibody recognizing 5-hydroxymethylcytosine (1:10,000 dilution). Panel B: 5-Methylcytosine antibody (1:1,000 dilution). Lane 1: DNA derived from mouse embryonic stem cells (150 ng). Lane 2: DNA derived from mouse spleen (600 ng). Lane 3: 27 base oligonucleotide containing 5-hydroxymethylcytosine (1.2 ng). Lane 4: 33 base oligonucleotide containing 5-

methylcytosine (2000 ng).



Methylated DNA Immunoprecipitation

Image 2. 5-Hydroxymethylcytosine (5-hmC, 5-hydroxymethylcytidine) antibody tested by Methyl DNA immunoprecipitation. DNA (25 pg) derived from the promoter of the APC gene was spiked into 500 ng of human genomic DNA and subjected to the MeDIP procedure using 1 μ l of 5-Hydroxymethylcytidine antibody (5hmC, maroon bars) or 1 μ l of control rabbit IgG (IgG, blue bars). Real time quantitative PCR was performed on the immunoprecipitated DNA and results plotted as % of input DNA. The spiked APC DNA contained either no methylation (DNA), 5-methylcytosine methylation (5-mC) or 5-hydroxymethylcytosine methylation (5-hmC).



Dot Blot

Image 3. 5-Hydroxymethylcytosine (5-hmC, 5-hydroxymethylcytidine) antibody tested by dot blot analysis. DNA samples (10 ng or 50 ng as indicated) were spotted onto positively charged nylon membrane and blotted with 5-Hydroxymethylcytidine antibody at a dilution of 1:10,000. Top Panel: Double stranded DNA. Bottom Panel: Single stranded DNA. Lane 1: Unmethylated DNA. Lane 2: DNA containing 5-methylcytosine. Lane 3: DNA containing 5-hydroxymethylcytosine.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2668981.