

Product Datasheet

5-hmC Antibody (AB3/63.3) - BSA Free NBP2-50099

Unit Size: 0.1 ml

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

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Publications: 5

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NBP2-50099

5-hmC Antibody (AB3/63.3) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	AB3/63.3
Preservative	0.02% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein G purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rat 5-hmC Antibody (AB3/63.3) - BSA Free (NBP2-50099) is a monoclonal antibody validated for use in ICC/IF and IP. Anti-5-hmC Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Species	All Species
Specificity/Sensitivity	Expected to detect 5-hydroxymethylcytosine in all species.
Immunogen	5-hmC conjugated to BSA

Product Application Details	
Applications	Dot Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, Dot Blot 1:100 - 1:2000
Application Notes	Positive control(s): Unmodified DNA, 5-Methylcytosine DNA, and 5-hydroxymethylcytosine DNA.

Publications

M Kusi, M Zand, LL Lin, M Chen, A Lopez, CL Lin, CM Wang, ND Lucio, NB Kirma, J Ruan, TH Huang, K Mitsuya 2-Hydroxyglutarate destabilizes chromatin regulatory landscape and lineage fidelity to promote cellular heterogeneity Cell Reports, 2022-01-11;38(2):110220. 2022-01-11 [PMID: 35021081]

Cao Z, Zhou N, Zhang Y et al. Dynamic reprogramming of 5-hydroxymethylcytosine during early porcine embryogenesis. Theriogenology. [PMID: 24315686]

Wossidlo et al. 5-Hydroxymethylcytosine in the mammalian zygote is linked with epigenetic reprogramming. Nat Commun. [PMID: 21407207]

Zhang Q, Lei X, Lu H. Alterations of epigenetic signatures in hepatocyte nuclear factor 4 alpha deficient mouse liver determined by improved ChIP-qPCR and (h)MeDIP-qPCR assays. PLoS One [PMID: 24427299] (IP)

Ficz et al. Dynamic regulation of 5-hydroxymethylcytosine in mouse ES cells and during differentiation. Nature [PMID: 21460836] (ICC/IF)





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Products Related to NBP2-50099

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP1-43321-0.5mg	Rat IgG2a Kappa Light Chain Isotype Control (R2a)

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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