

À des fins de recherche uniquement

Anticorps Monoclonal anti-m5C

Numéro de catalogue: 68301-1-Ig



Informations de base

Numéro de catalogue:

68301-1-Ig

Taille:

150ul, Concentration: 500 µg/ml by Nanodrop;

Hôte:

Mouse

Isotype:

IgG2b

Numéro d'acquisition GenBank:

Identification du gène (NCBI):

Nom complet:

Méthode de purification:

Purification par protéine A

CloneNo.:

2C9G9

Dilutions recommandées:

IHC 1:2500-1:10000

Dot Blot 1:2500-1:10000

Applications

Applications testées:

Dot Blot, IHC, ELISA

Spécificité de l'espèce:

Humain, rat, souris, m5C

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

IHC : tissu testiculaire de souris, tissu cérébral de rat, tissu testiculaire de rat

Dot Blot : cellules HeLa,

Informations générales

In eukaryotes, 5-methylcytosine in DNA (5mC) and its oxidized derivatives (5-hydroxymethylcytosine (5hmC), 5-formylcytosine (5fC), and 5-carboxylcytosine (5caC)) are the most prominent modifications and have been suggested to contribute to epigenetic gene regulation through a variety of different mechanisms. m5C has also been found in mRNA, rRNA and tRNA of representative organisms from all kinds of species. As reversible epigenetic modifications, m5C modifications of RNA affect the fate of the modified RNA molecules and play important roles in various biological processes including RNA stability control, protein synthesis, and transcriptional regulation (PMID: 35365216).

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

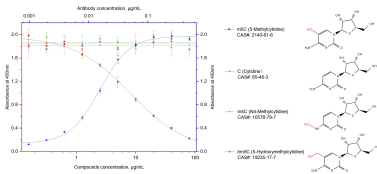
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

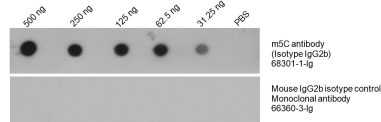
E: proteintech@ptglab.com
W: ptglab.com

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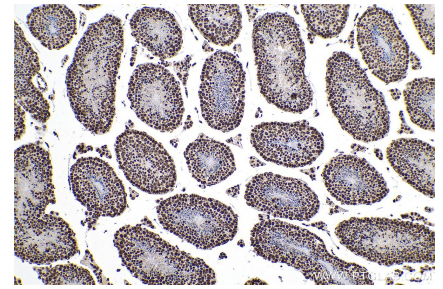
Données de validation sélectionnées



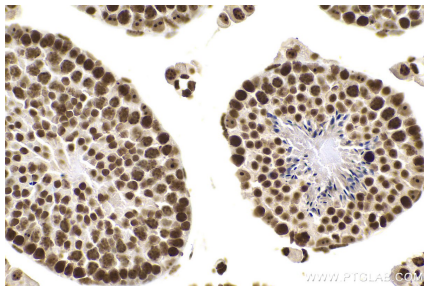
Indirect ELISA and competitive ELISA results show that this antibody is specific to m5C. Indirect ELISA (blue curve, refer to top X-right Y axis) was performed by coating BSA conjugated m5C at 0.4ng/well followed by blocking with 1% BSA. Serial diluted primary antibody was added to the plates and incubated at 37°C. HRP-goat anti-mouse was used for detection. Competitive ELISA was performed similarly except that different concentration of m5C or its structure analogue



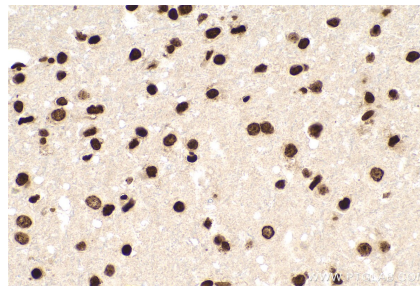
Total DNA was isolated from HeLa cell line and was dotted to NC membrane at different amount as indicated above the dots. The membrane was blocked with BSA and blotted with m5C antibody 68301-1-Ig at 1:5000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL substrate. A parallel dot blot was performed using Mouse IgG2b isotype control Monoclonal antibody 66360-3-Ig at the same dose.



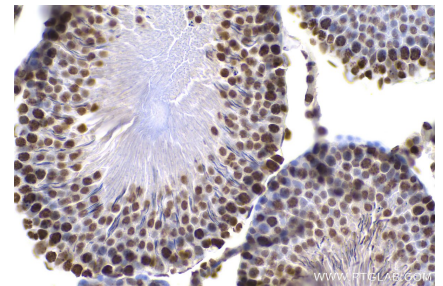
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 68301-1-Ig (m5C antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 68301-1-Ig (m5C antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 68301-1-Ig (m5C antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 68301-1-Ig (m5C antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).