For Research Use Only

RNA Methylation Essentials Antibody Kit

www.ptglab.com

Catalog Number: PK30016

Description

The RNA Methylation Essentials Antibody Kit provides a cost-effective tool for studying the modifications m6A, m5C, m7G, and m1A. Perfect for researchers starting a new project, screening multiple prospective targets or those who simply require less volume.

Product Information

The RNA Methylation Essentials Antibody Kit contains antibodies against 4 key RNA modifications.

Antigen	Catalog No.	Host, clonality	Tested Reactivity	Applications	Volume
m6A	68055-1-Ig	Mouse monoclonal	H, M, R, Pg	WB, IP, IF, RIP, IHC, ELISA, Dot Blot	20 uL
m5C	68301-1-Ig	Mouse monoclonal	H, M, R	IHC, ELISA, Dot Blot	20 uL
m7G	68302-1-Ig	Mouse monoclonal	H, M	IHC, ELISA, Dot Blot	20 uL
m1A	68636-1-Ig	Mouse monoclonal	H	ELISA, Dot Blot	20 uL

Also see our 'RNA Methylation Expanded Antibody Kit' on the following page
https://www.ptglab.com/products/RNA-Methylation-Expanded-Antibody-Kit-PK30017.htm

Package

4× 20 uL

Storage

Store at -20°C. Stable for one year from the date of receipt.

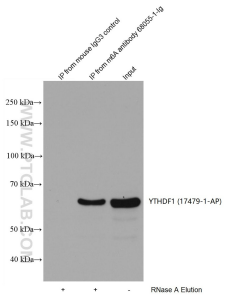
Background Information

RNA methylation is a type of RNA modification involving the addition of a methyl group to specific nucleotide bases. Methylation of RNA residues is modulated by the dynamic interplay between regulators called "writers" (methyltransferases), "readers" (binding proteins), and "erasers (demethylases). m6A, m5C, m7G, and m1A are common RNA modifications and have been shown to play critical roles in gene expression and various diseases, including cancer.

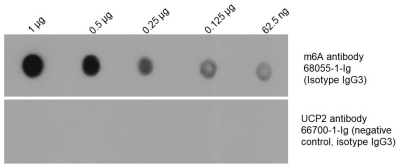
Standard Protocols

Click here to view our standard protocols for various applications including WB, IP, IHC, IF, FC, and ELISA.

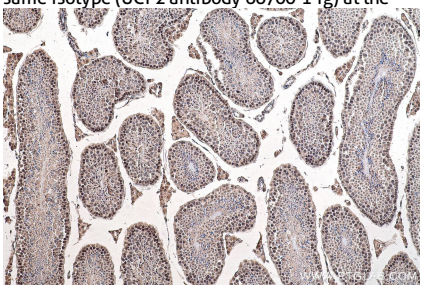
Validation Data



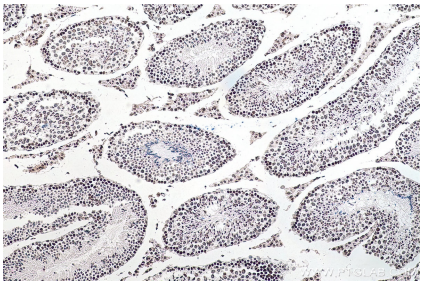
HEK-293 cells were lysised and immunoprecipitated with Protein A-m6A antibody and Protein A-mouse IgG3 control antibody respectively in the presence of RNAase inhibotor cocktail. The immunoprecipitated complex was washed diggested by RNAse A followed by western blot with YTHDF1(m6A reader) antibody 17479-1-... AP (1:2000). (Lysate: 3.6mg per IP; IP: 15μg antibody and 50μL beads, 4 hours at 4°C; Diggestion:



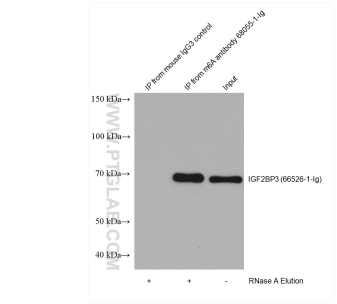
Total RNA was isolated from HEK-293 cell line and was dotted to NC membrane at different amount as indicated above the dots. The membrane was blocked with BSA and blotted with m6A antibody 68055-1-Ig at 1:2000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL substrate. A parallel dot blo... was performed using unrelated antibody with the same isotype (UCP2 antibody 66700-1-Ig) at the



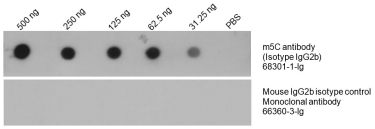
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 68302-1-Ig (m7G antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



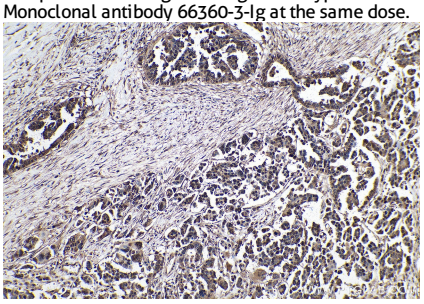
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 68055-1-Ig (m6A antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



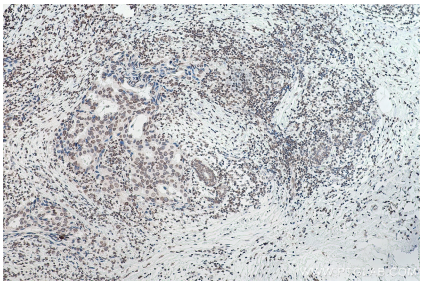
HEK-293 cells were lysised and immunoprecipitated with Protein A-m6A antibody and Protein A-mouse IgG3 control antibody respectively in the presence of RNAase inhibotor cocktail. The immunoprecipitated complex was washed diggested by RNAse A followed by western blot with IGF2BP3 (m6A reader) antibody 66526-1-... Ig (1:2000). (Lysate: 4.0 mg per IP; IP: 30μg antibody and 50μL beads, 4 hours at 4°C; Diggestion:



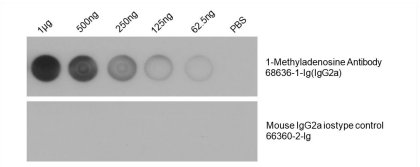
Total DNA was isolated from HeLa cell line and was dotted to NC membrane at different amount as indicated above the dots. The membrane was blocked with BSA and blotted with m5C antibody 68301-1-Ig at 1:5000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL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



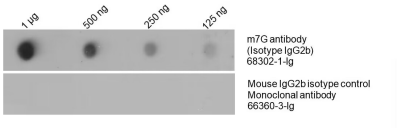
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 68302-1-Ig (m7G antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



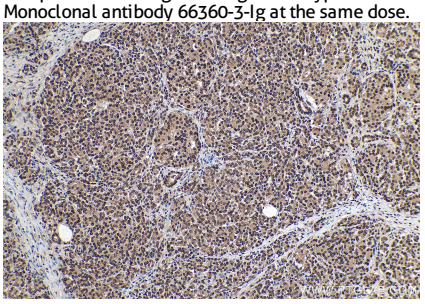
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 68055-1-Ig (m6A antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



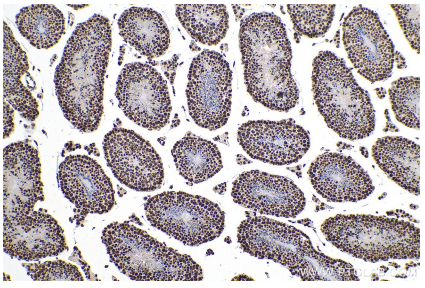
Total RNA was isolated from HeLa cell line and was dotted to NC membrane at different amount as indicated above the dots. The membrane was blocked with 1% BSA and blotted with m1A (1-Methyladenosine) antibody 68636-1-Ig at 1:2000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL... substrate. A parallel dot blot was performed using Mouse IgG2a isotype control Monoclonal antibody



Total RNA 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 m7G antibody 68302-1-Ig at 1:5000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL substrate. A parallel dot blo... was performed using Mouse IgG2b isotype control Monoclonal antibody 66360-3-Ig at the same dose.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 68302-1-Ig (m7G antibody) at dilution of 1:2000 (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 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

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