For Research Use Only

RNA Methylation Expanded Antibody Kit

Catalog Number: PK30017

www.ptglab.com

Description

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

Product Information

The RNA Methylation Expanded Antibody Kit contains antibodies against 12 key targets for studying RNA modifications and their regulators.

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
METTL3	80323-1-RR	Rabbit monoclonal	H, M, R	WB, IF, IHC, ELISA	20 uL
FTO	81471-1-RR	Rabbit monoclonal	H	WB, IF, IHC, ELISA	20 uL
YTHDF1	66745-1-Ig	Mouse monoclonal	H, M, R, Pg	WB, IP, IF, IHC, CoIP, ELISA	20 uL
NSUN2	66580-1-Ig	Mouse monoclonal	H	WB, IP, IF, IHC, CoIP, ELISA	20 uL
TET2	21207-1-AP	Rabbit polyclonal	H, M, G, Sh	WB, IP, IF, FC, IHC, CoIP, ChIP, ELISA	20 uL
ALYREF	16690-1-AP	Rabbit polyclonal	H, M, G, Sh	WB, IF, IHC, ELISA	20 uL
RNMT	67673-1-Ig	Mouse monoclonal	H, M	WB, ELISA	20 uL
TRMT6	16727-1-AP	Rabbit polyclonal	H, M, R	WB, IHC, ELISA	20 uL

Also see our 'RNA Methylation Essentials Antibody Kit' on the following page
https://www.ptglab.com/products/RNA-Methylation-Essentials-Antibody-Kit-PK30016.htm

Package

12× 20 uL

Storage

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

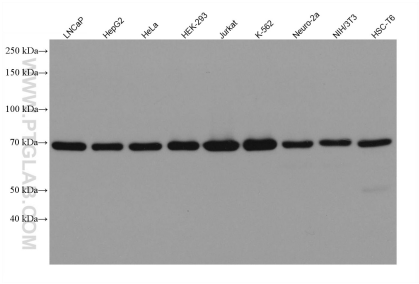
Background Information

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.

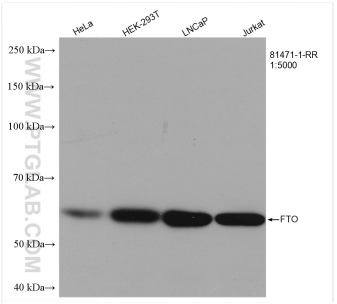
Standard Protocols

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

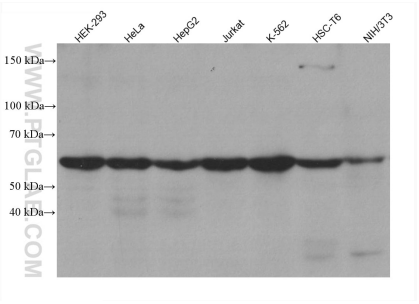
Validation Data



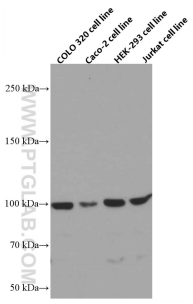
Various lysates were subjected to SDS PAGE followed by western blot with 80323-1-RR (METTL3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



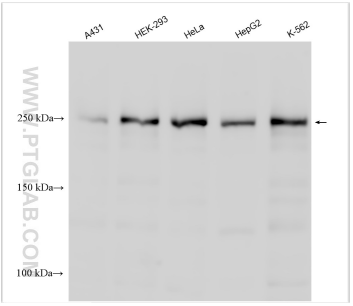
Various lysates were subjected to SDS PAGE followed by western blot with 81471-1-RR (FTO antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



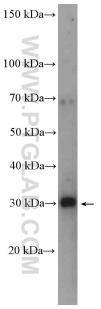
Various lysates were subjected to SDS PAGE followed by western blot with 66745-1-Ig (YTHDF1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



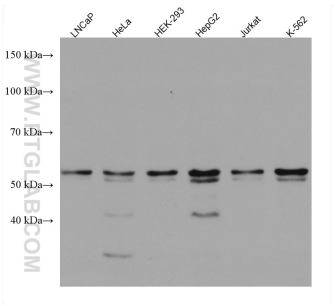
Various lysates were subjected to SDS PAGE followed by western blot with 66580-1-Ig (NSUN2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



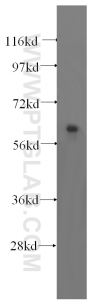
Various lysates were subjected to SDS PAGE followed by western blot with 21207-1-AP (TET2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



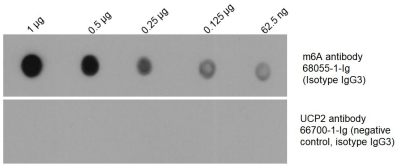
HeLa cells were subjected to SDS PAGE followed by western blot with 16690-1-AP (ALY antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



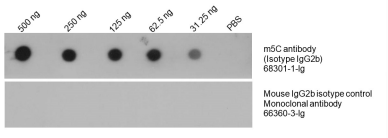
Various lysates were subjected to SDS PAGE followed by western blot with 67673-1-Ig (RNMT antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



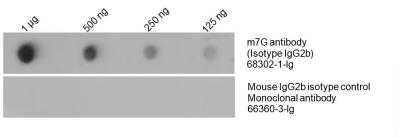
human brain tissue were subjected to SDS PAGE followed by western blot with 16727-1-AP (TRMT6 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



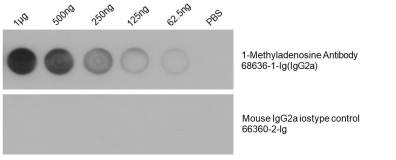
Total RNA was isolated from HEK-293 cell line and was dotted to NC membrane at different amount as indicated above the dots. The membrane was blocked with BSA and blotted with m6A antibody 68055-1-Ig at 1:2000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL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



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



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



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