For Research Use Only

m6A Essentials Antibody Kit

Catalog Number: PK30018

www.ptglab.com

Description

The m6A Essentials Antibody Kit provides a cost-effective tool for studying the m6A modification and its regulators. Perfect for researchers starting a new project, screening multiple prospective targets or those who simply require less volume.

Product Information

The m6A Essentials Antibody Kit contains antibodies against 8 key targets for studying m6A and its 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
METTL3	80323-1-RR	Rabbit monoclonal	H, M, R	WB, IF, IHC, ELISA	20 uL
METTL14	80790-1-RR	Rabbit monoclonal	H, M	WB, IHC, ELISA	20 uL
WTAP	60188-1-Ig	Mouse monoclonal	H, M, R, Dr	WB, IP, IF, FC, RIP, I HC, ELISA	20 uL
FTO	81471-1-RR	Rabbit monoclonal	H	WB, IF, IHC, ELISA	20 uL
ALKBH5	67811-1-Ig	Mouse monoclonal	H, M, R	WB, IHC, ELISA	20 uL
YTHDF1	66745-1-Ig	Mouse monoclonal	H, M, R, Pg	WB, IP, IF, IHC, CoIP, ELISA	20 uL
YTHDF2	81340-1-RR	Rabbit monoclonal	H, M, R	WB, IP, IF, IHC, CoIP, ELISA	20 uL

Package

8× 20 uL

Storage

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

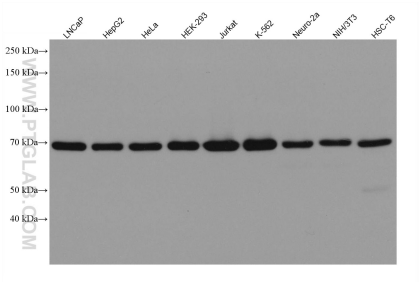
Background Information

m6A (N6-methyladenosine) is the most abundant modification in mammalian mRNA. This modification is initiated by the m6A methylatransferases (writers) such as METTL3, METTL14, and WTAP. m6A modifications can be reversed by demethylases (erasers) such as FTO and ALKBH5. The stability of m6A-modified mRNA is regulated by YTHDF reader proteins, which recognize m6A and reduce the stability of target transcripts. m6A and its regulatory proteins play critical roles in cancer pathogenesis and progression.

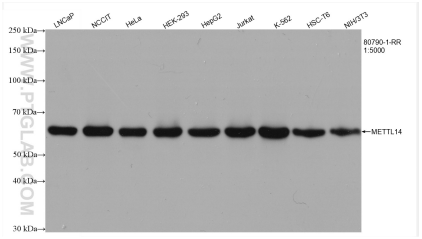
Standard Protocols

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

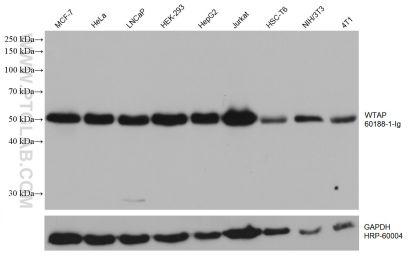
Validation Data



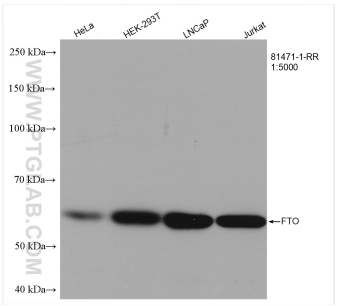
Various lysates were subjected to SDS PAGE followed by western blot with 80323-1-RR (METTL3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



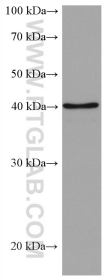
Various lysates were subjected to SDS PAGE followed by western blot with 80790-1-RR (METTL14 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



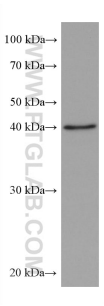
Various lysates were subjected to SDS PAGE followed by western blot with 60188-1-Ig (WTAP antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



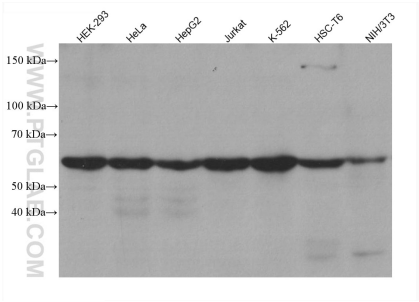
Various lysates were subjected to SDS PAGE followed by western blot with 81471-1-RR (FTO antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



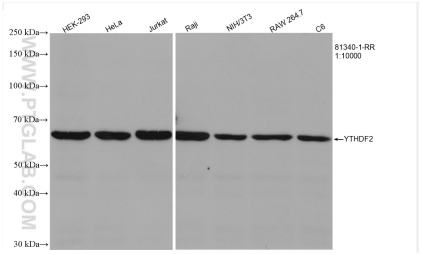
4T1 cells were subjected to SDS PAGE followed by western blot with 67811-1-Ig (ALKBH5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



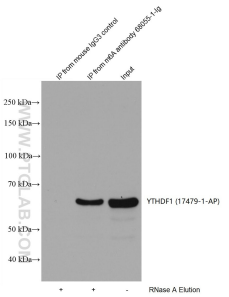
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 67811-1-Ig (ALKBH5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



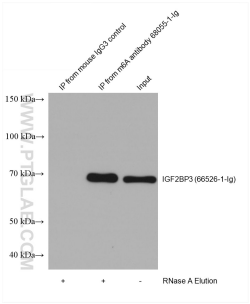
Various lysates were subjected to SDS PAGE followed by western blot with 66745-1-Ig (YTHDF1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



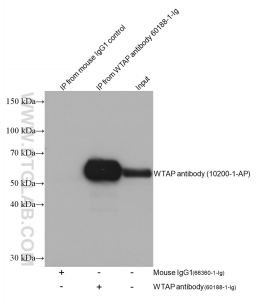
Various lysates were subjected to SDS PAGE followed by western blot with 81340-1-RR (YTHDF2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



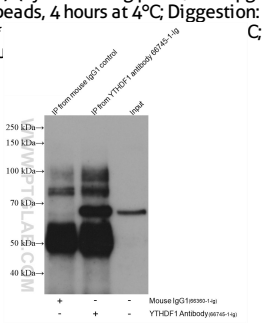
HEK-293 cells were lysised and immunoprecipitated with Protein A-m6A antibody and Protein A-mouse IgG3 control antibody respectively in the presence of RNAase inhibotor cocktail. The immunoprecipitated complex was washed diggested by RNAse A followed by western blot with YTHDF1(m6A reader) antibody 17479-1-... AP (1:2000). (Lysate: 3.6mg per IP; IP: 15μg antibody and 50μL beads, 4 hours at 4°C; Diggestion: 50μg/mL * C; Loading: 20% of elu



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



IP result of anti-WTAP (IP:60188-1-Ig, 4ug; Detection:10200-1-AP 1:8000) with HeLa cells lysate 2000 ug.



IP result of anti-YTHDF1 (IP:66745-1-Ig, 4ug; Detection:66745-1-Ig 1:2000) with Jurkat cells lysate 2000 ug.

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

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W: ptglab.com

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