

# IHC*easy* METTL1 Ready-To-Use IHC Kit

Catalog Number: **KHC0144**

## General Information

Sample type:  
FFPE tissue  
Cited sample type:  
Reactivity:  
Human, Mouse, Rat  
Cited Reactivity:

Assay type:  
Immunohistochemistry  
Primary antibody type:  
Rabbit Polyclonal  
Secondary antibody type:  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

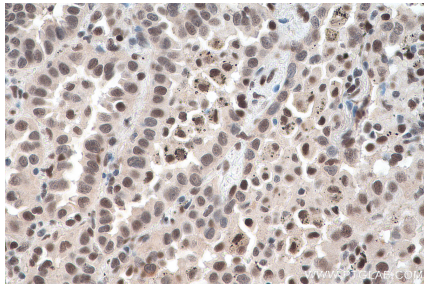
## Background

METTL1 methyltransferase mediates m7G methylation within miRNAs and regulates cell migration via its catalytic activity. METTL1 can be inactivated by phosphorylation at Ser27 by protein kinase B (PKB  $\alpha$ ). Overexpression of METTL1 is widely observed among human cancers. It is also crucial for the regulation of chemoresistance in cancer treatment. In addition, mutations in the human N7-methylguanosine (m7G) methyltransferase complex METTL1/WDR4 cause primordial dwarfism and brain malformation.

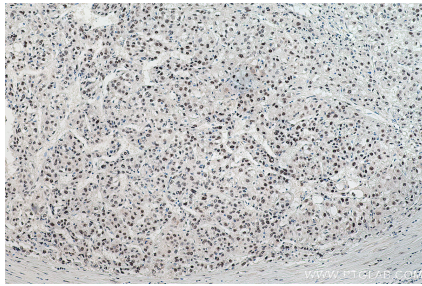
## Synonyms

C12orf1, methyltransferase like 1, METTL1, TRM8, tRNA(m7G46) methyltransferase, YDL201w

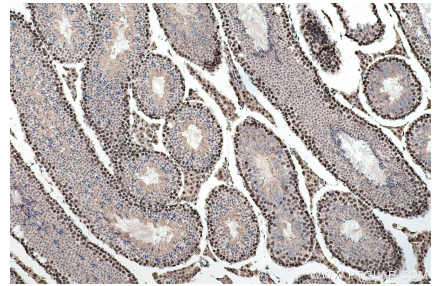
## Selected Validation Data



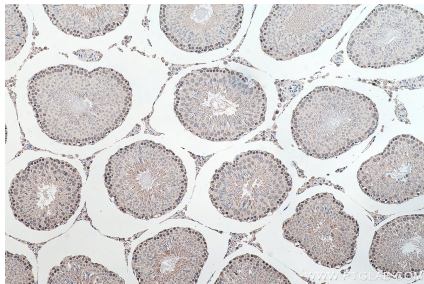
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using KHC0144 (METTL1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using KHC0144 (METTL1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using KHC0144 (METTL1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using KHC0144 (METTL1 IHC Kit).