

IHCeasy[®] YTHDF2 Ready-To-Use IHC Kit

Catalog Number: **KHC0158**

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.

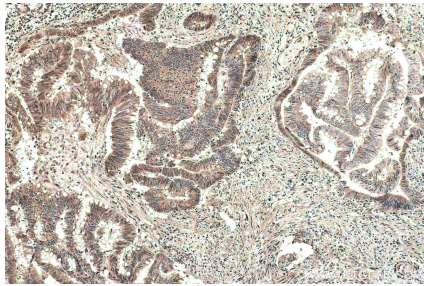
Background

YTHDF2, also named as YTH domain-containing family protein 2, is a 579 amino acid protein, which contains 1 YTH domain. YTHDF2 specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, and regulates mRNA stability. M6A is a modification present at internal sites of mRNAs and some non-coding RNAs and plays a role in the efficiency of mRNA splicing, processing and stability. YTHDF2 acts as a regulator of mRNA stability: binding to m6A-containing mRNAs results in the localization to mRNA decay sites, such as processing bodies (P-bodies), leading to mRNA degradation. YTHDF2 also acts as a promoter of cap-independent mRNA translation following heat shock stress: upon stress, relocalizes to the nucleus and specifically binds mRNAs with some m6A methylation mark at their 5'-UTR, protecting demethylation of mRNAs by FTO, thereby promoting cap-independent mRNA translation.

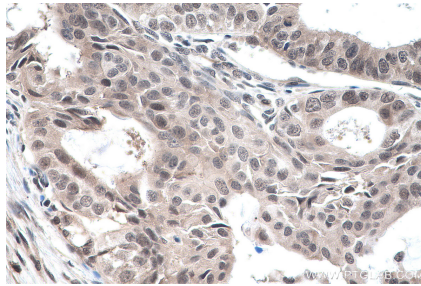
Synonyms

CLL associated antigen KW 14, HGRG8, NY REN 2, YTH domain family protein 2, YTH domain family, member 2, YTHDF2

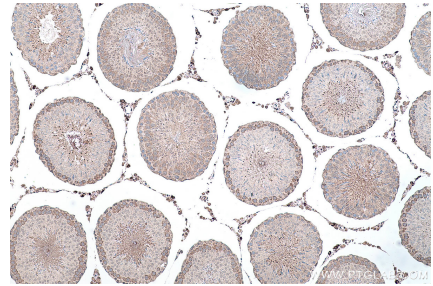
Selected Validation Data



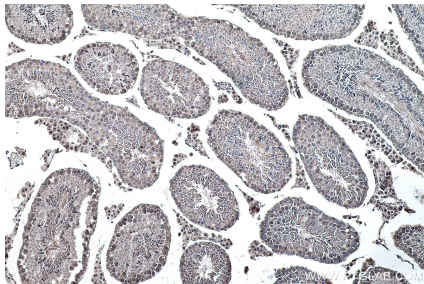
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using KHC0158 (YTHDF2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using KHC0158 (YTHDF2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using KHC0158 (YTHDF2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using KHC0158 (YTHDF2 IHC Kit).