

METTL3 (PT0175R) PT® Rabbit mAb

Catalog No :	YM8107
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	METTL3
Gene Name :	METTL3 MTA70
Protein Name :	N6-adenosine-methyltransferase 70 kDa subunit (MT-A70) (EC 2.1.1.62) (Methyltransferase-like protein 3)
Human Gene Id :	56339
Human Swiss Prot No :	Q86U44
Mouse Gene Id :	56335
Mouse Swiss Prot No :	Q8C3P7
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-400,WB 1:1000-5000,IF 1:200-1000,ELISA 1:5000-20000,IP 1:50-200
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	64kD
Observed Band :	70kD

Function :

The METTL3-METTL14 heterodimer forms a N6-methyltransferase complex that methylates adenosine residues at the N(6) position of some RNAs and regulates various processes such as the circadian clock, differentiation of embryonic and hematopoietic stem cells, cortical neurogenesis, response to DNA damage, differentiation of T-cells and primary miRNA processing . In the heterodimer formed with METTL14, METTL3 constitutes the catalytic core . N6-methyladenosine (m6A), which takes place at the 5'-[AG]GAC-3' consensus sites of some mRNAs, plays a role in mRNA stability, processing, translation efficiency and editing . M6A acts as a key regulator of mRNA stability: methylation is completed upon the release of mRNA into the nucleoplasm and promotes mRNA destabilization and degradation . In embryonic stem cells (ESCs), m6A methylation of mRNAs encoding key naive pluripotency-promoting transcripts

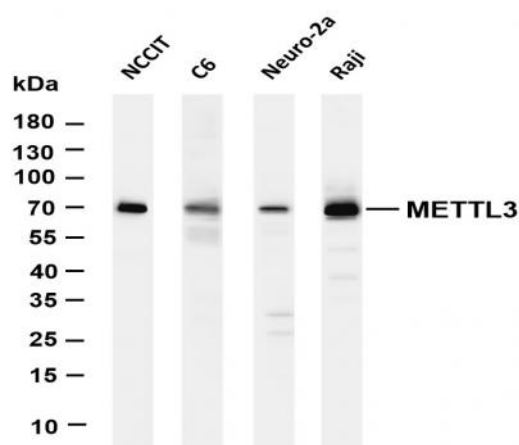
Subcellular Location :

Nucleus

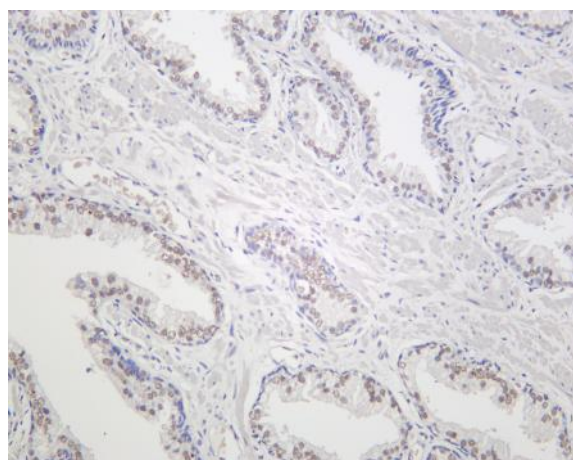
Expression :

Widely expressed at low level. Expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes.

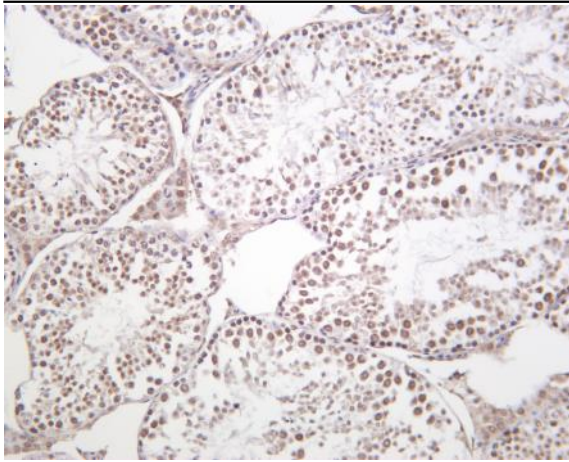
Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-METTL3 (PT0175R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: NCCIT Lane 2: C6 Lane 3: Neuro-2a Lane 4: Raji Predicted band size: 64kDa Observed band size: 70kDa



Human prostate cancer was stained with Anti-METTL3 (PT0175R) rabbit antibody



Mouse testis was stained with Anti-METTL3 (PT0175R) rabbit antibody