

MettL7B Antibody
Catalog # ASC10801**Specification****MettL7B Antibody - Product Information**

Application	IF
Primary Accession	Q6UX53
Other Accession	NP_689850 , 196410
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	MettL7b antibody can be used for detection of mettl7b by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL.

MettL7B Antibody - Additional InformationGene ID **196410****Target/Specificity**

MettL7B antibody was raised against a 13 amino acid synthetic peptide near the amino terminus of human MettL7B.

The immunogen is located within amino acids 20 - 70 of MettL7B.

Reconstitution & Storage

MettL7B antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

MettL7B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MettL7B Antibody - Protein Information**Name** TMT1B {ECO:0000303|PubMed:37137720, ECO:0000312|HGNC:HGNC:28276}**Function**

Thiol S-methyltransferase that catalyzes the transfer of a methyl group from S-adenosyl-L-methionine to alkyl and phenolic thiol- containing acceptor substrates. Together with TMT1B accounts for most of S-thiol methylation activity in the endoplasmic reticulum of hepatocytes. Selectively methylates S-centered nucleophiles from metabolites such as hydrogen sulfide and dithiothreitol.

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q562C4}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q562C4}. Lipid droplet {ECO:0000250|UniProtKB:Q562C4}. Microsome. Cytoplasm, cytosol. Note=Highly concentrated in the perinuclear area of the

endoplasmic reticulum (ER) and surrounding lipid droplets. May be associated with the specific regions of the LR that form lipid droplets and targeted to the initial deposits of lipids where the lipid droplets form. {ECO:0000250|UniProtKB:Q562C4}

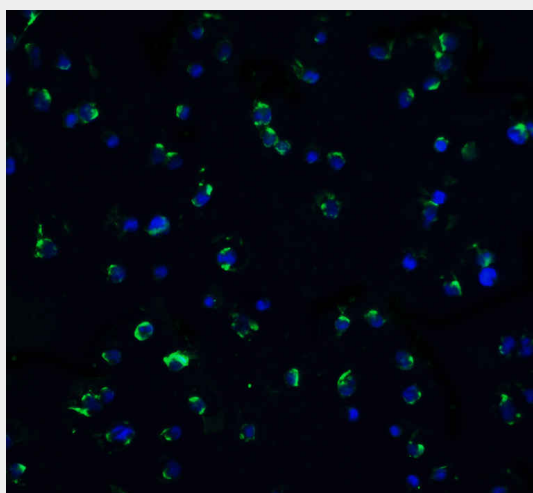
Tissue Location

Expressed in the liver.

MettL7B Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MettL7B Antibody - Images

Immunofluorescence of DR3 in Jurkat cells with DR3 antibody at 5 µg/ml.

MettL7B Antibody - Background

MettL7B Antibody: MettL7B belongs to the methyltransferase superfamily. It is a probable methyltransferase. Methyltransferase is a type of transferase enzyme which transfers a methyl group from a donor to an acceptor. Often methylation occurs on nucleic bases in DNA or amino acids in protein structures. DNA methylation is often utilized to silence and regulate genes without changing the original DNA sequence. DNA methylation may be necessary for normal growth from embryonic stages in mammals. When mutant embryonic stem cells lacking the murine DNA methyltransferase gene were introduced to a germline of mice they caused a recessive lethal phenotype. Methylation may also be linked to cancer development as methylation of tumor suppressor genes promotes tumorigenesis and metastasis.

MettL7B Antibody - References

Clark HF, Gurney AL, Abaya E, et al. The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment. *Genome Res.*2003; 13:2265-70.

Li E, Bestor TH, and Jaenisch R. Targeted mutation of the DNA methyltransferase gene results in embryonic lethality. *Cell*1992; 69:915-26.

Laird PW and Jaenisch R. DNA Methylation and Cancer. *Human Molecular Genetics*1994; 3:1487-95.