

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human METTL3.
Source	Monoclonal Mouse IgG ₁ Clone # 1075034
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	METTL3 containing Synthetic Peptide Accession # Q86U44
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

METTL3 is a 70 kDa subunit and is the sole catalytic subunit in the methyltransferase complex which catalyzes N6-methyladenosine. N6-methyladenosine is the most abundant mRNA modification. The full-length METTL3 protein consists of 580 amino acids. METTL3 plays a key role in a variety of cancers and expression is dysregulated via different mechanisms. It plays a critical role in tumorigenesis, tumor growth, metastasis, metabolic reprogramming, immune cell infiltration, and tumor drug resistance. METTL3 can be an oncogene through depositing m6A modifications on critical transcripts. In some cases, it can also be a tumor suppressor possibly by promoting cell cycle arrest in the G1 phase.

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