

# CoraLite® Plus 488-conjugated SETD1A Monoclonal antibody

Catalog Number: **CL488-67936**

## Basic Information

**Catalog Number:**

CL488-67936

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG30424

**GenBank Accession Number:**

NM\_014712

**GeneID (NCBI):**

9739

**UNIPROT ID:**

O15047

**Full Name:**

SET domain containing 1A

**Calculated MW:**

186 kDa

**Observed MW:**

270 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1C2G12

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

**Species Specificity:**

human, mouse, rat

## Background Information

SETD1A is a SET domain-containing methyltransferase involved in the epigenetic regulation of transcription (PMID:12670868). It is the main catalytic component of a multiprotein complex that methylates lysine 4 of histone H3, a histone mark associated with gene activation (PMID:29937342). Responsible for H3K4me3 enriched promoters and transcriptional programming of inner mass stem cells and neuron progenitors during embryogenesis (PMID:31197650). Does not methylate 'Lys-4' of histone H3 if the neighboring 'Lys-9' residue is already methylated (PubMed:12670868). SETD1A has a calculated molecular weight of 186 kDa, and a 258 kDa band was also reported (PMID: 31076518).

## Storage

**Storage:**

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

