

# KMT2C Recombinant antibody

Catalog Number: 83595-4-RR

## Basic Information

<b>Catalog Number:</b> 83595-4-RR	<b>GenBank Accession Number:</b> NM_170606	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 58508	<b>CloneNo.:</b> 240542A2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8NEZ4	<b>Recommended Dilutions:</b> IF/ICC 1:125-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> myeloid/lymphoid or mixed-lineage leukemia 3	
<b>Immunogen Catalog Number:</b> AG28875	<b>Calculated MW:</b> 541 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> IF/ICC : MCF-7 cells,
<b>Species Specificity:</b> human	

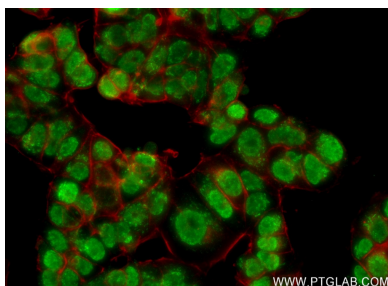
## Background Information

Lysine (K)-specific methyltransferase 2C (KMT2C, also known as MLL3) belongs to the mixed-lineage leukemia (MLL) family of histone methyltransferases which methylate the histone 3 tail at lysine 4 (H3K4) as part of the complex proteins associated with Set 1 (COMPASS) complex. Although originally identified as oncogenic fusions in leukemia, genome-wide mutation studies have revealed frequent, presumably loss-of-function, mutations in various members of the MLL family, including MLL2/KMT2B, MLL3/KMT2C, and MLL4/KMT2D in a variety of malignancies, particularly solid tumors. Mechanistic studies of KMT2C in normal cells have focused primarily on its role in enhancer regulation by deposition of H3K4me1 marks.

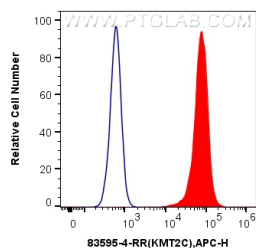
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

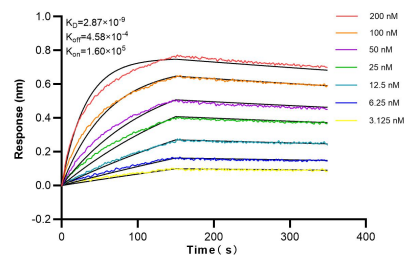
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using KMT2C antibody (83595-4-RR, Clone: 240542A2) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (green).



$1 \times 10^6$  U2OS cells were intracellularly stained with 0.25  $\mu$ g KMT2C Recombinant antibody (83595-4-RR, Clone: 240542A2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83595-4-RR against Human KMT2C were performed. The affinity constant is 2.67 nM.