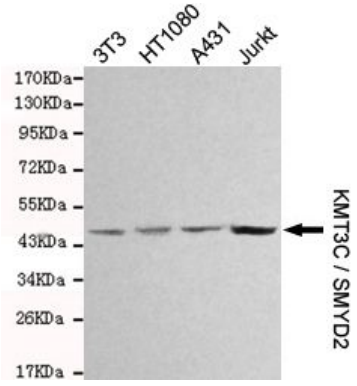
KMT3C/SMYD2

Mouse monoclonal Antibody

#53179

Catalog Number: 53179
Amount: 100μg/100μl
Swiss-Prot No. :Q9NRG4
Gene name:smyd2
Gene id:56950
Clone Number： 1G10-E11-H9
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human KMT3C / SMYD2 protein fragments expressed in E.coil.
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of KMT3C / SMYD2 and does not corss-react with related proteins
Reactivity: Human,Mouse
Applications: Predicted MW: 50 kd WB: 1:1000



Western blot detection of KMT3C / SMYD2 in 3T3,HT1080,A431 and Jurkat cell lysates and using KMT3C / SMYD2 mouse mAb (1:1000 diluted). Predicted band size: 50KDa.Observed band size: 50KDa.

Background :
SET domain-containing proteins, such as SMYD2, catalyze lysine methylation (Brown et al., 2006 [PubMed 16805913]).Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins. Specifically methylates histone H3 'Lys-4' (H3K4me) and dimethylates histone H3 'Lys-36' (H3K36me2). Has also methyltransferase activity toward non-histone proteins such as p53/TP53 and RB1. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates 'Lys-860' of RB1/RB.