

For Research Use Only

CoraLite® Plus 488-conjugated SMYD3 Monoclonal antibody

Catalog Number: CL488-66330



Basic Information

Catalog Number: CL488-66330	GenBank Accession Number: BC031010	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 64754	CloneNo.: 1B5C10
Source: Mouse	UNIPROT ID: Q9H7B4	Recommended Dilutions: WB 1:500-1:1000
Isotype: IgG1	Full Name: SET and MYND domain containing 3	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG2624	Calculated MW: 428aa,49 kDa; 369aa,42 kDa	
	Observed MW: 49 kDa	

Applications

Tested Applications: WB	Positive Controls: WB : A431 cells, MCF-7 cells, HEK-293 cells
Species Specificity: human	

Background Information

SMYD3, also name as ZMYND1 and ZNFN3A1, belongs to the histone-lysine methyltransferase family. It is a histone methyltransferase that plays an important role in transcriptional regulation in human carcinogenesis. It can specifically methylate histone H3 at lysine 4 and activate the transcription of a set of downstream genes, including several oncogenes (e.g., N-myc, CrkL, Wnt10b, RIZ and hTERT) and genes involved in the control of cell cycle. (PMID: 20957523). It plays an important role in transcriptional activation as a member of an RNA polymerase complex. SMYD3 is frequently overexpressed in different types of cancer cells. It functions as a coactivator of Era and potentiates Era activity in response to ligand. SMYD3 as a new coactivator for ER-mediated transcription, providing a possible link between SMYD3 overexpression and breast cancer. (PMID: 19509295) The common variable number of tandem repeats polymorphism in SMYD3 is a susceptibility factor for some types of human cancer. (PMID:16155568)

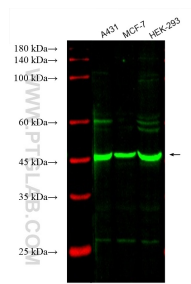
Storage

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

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL488-66330 (SMYD3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.