For Research Use Only

SMYD3 Polyclonal antibody Catalog Number: 12011-1-AP Featured Product 7



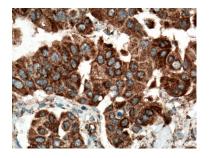


Basic Information	Catalog Number: 12011-1-AP	GenBank Accessio BC031010	n Number:	Purification Method: Antigen affinity purification
	Size:	GeneID (NCBI):		Recommended Dilutions:
	300 µg/ml	64754		WB 1:500-1:1000
	Source:			IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
	Rabbit	Q9H7B4		IHC 1:50-1:500
	Isotype: IgG	Full Name: SET and MYND dor	main containing 3	IF/ICC 1:50-1:500
	Immunogen Catalog Number: AG2624	Calculated MW: 428aa,49 kDa; 369aa,42 kDa		
	Observed MW: 42-45 kDa			
Applications	and the second se		Positive Cont	rols:
	Cited Applications: HepG2 cells		WB : mouse bi HepG2 cells	rain tissue, COLO 320 cells, HeLa cells,
			IP: COLO 320	cells,
	Species Specificity: IHC : huma human, mouse, rat tissue			reast cancer tissue, human colon cance
	Cited Species: human, mouse, rat		IF/ICC : HEK-2	293 cells,
	buffer pH 6.0			
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 at 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). SMYD3 exists some isoforms with MV 49, 43 and 30 kDa.			
Notable Publications	Author	Pubmed ID Jo	ournal	Application
	Xiaomei Liu	29130966 C	ell Physiol Biocher	n WB
	Fen Long	34094832 A	cta Pharm Sin B	WB
	Ewud Agborbesong	38892227 Ir	nt J Mol Sci	ChIP
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer:	r after shipment.		

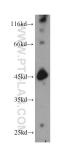
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

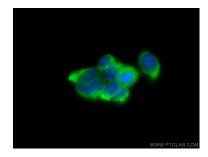
Selected Validation Data



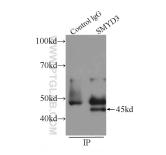
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 12011-1-AP (SMYD3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 12011-1-AP (SMYD3 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using SMYD3 antibody (12011-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-SMYD3 (IP:12011-1-AP, 4ug; Detection:12011-1-AP 1:500) with COLO 320 cells lysate 1280ug.