For Research Use Only

SMYD2 Polyclonal antibody

Catalog Number:21290-1-AP

Featured Product

15 Publications

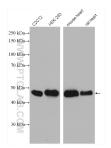


Basic Information	Catalog Number: 21290-1-AP	GenBank Accession N BC098305	umber:	Purification Method: Antigen affinity purification	
	Size:	GeneID (NCBI):		Recommended Dilutions:	
	150ul , Concentration: 700 µg/ml by	56950 Full Name: SET and MYND domain containing 2		WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:50-1:500	
	Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;				
	Source: Rabbit	Calculated MW: 433 aa, 50 kDa			
	Isotype: IgG	Observed MW:			
	Immunogen Catalog Number: AG15823				
Applications	Tested Applications:	Positive Controls:			
	IF, IHC, WB, ELISA Cited Applications:			ll, HEK-293 cells, C2C12 cells, U2OS eart tissue, rat heart tissue	
	IF, IHC, WB		IHC : rat heart tissue,		
	Species Specificity: human, mouse, rat		IF : HeLa cells,		
	Cited Species: human, rat, mouse				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
	SMYD2, also known as SET and MYND domain containing 2, encodes an enzyme called N-lysine methyltransferase SMYD2, which plays a crucial role in cellular processes, including histone methylation, non-histone protein methylation, cell proliferation and differentiation, DNA repair (PMID: 18065756, PMID: 36191822). Aberrant SMYD2 expression has been linked to various cancers, including colon cancer, lung cancer, and cervical cancer. Smyd2 is strongly expressed in muscle cells with highest expression in the neonatal heart (PMID: 25125178).				
Background Information	SMYD2, which plays a crucial role in o methylation, cell proliferation and di expression has been linked to variou	cellular processes, inclu fferentiation, DNA repa s cancers, including col	iding histone m hir (PMID: 1806 on cancer, lung	ethylation, non-histone protein 756, PMID: 36191822). Aberrant SMYI cancer, and cervical cancer. Smyd2 is	
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Notable Publications	SMYD2, which plays a crucial role in c methylation, cell proliferation and di expression has been linked to variou strongly expressed in muscle cells with Author Public Libin Yan 3173 Haibi Su 3623 Ying Wang 3403 Storage: Stora at -20°C. Stable for one year after Storage Buffer:	rellular processes, inclu fferentiation, DNA reparts a cancers, including col ith highest expression in med ID Journa 54403 Therar 70984 Cell D 15314 Exp Ce er shipment. % glycerol pH 7.3.	iding histone m ir (PMID: 1806 on cancer, lung n the neonatal nostics eath Dis	ethylation, non-histone protein 756, PMID: 36191822). Aberrant SMYI cancer, and cervical cancer. Smyd2 is heart (PMID: 25125178). Application IHC WB	

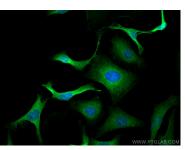
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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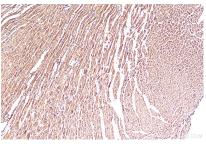
Selected Validation Data



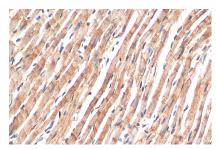
Various lysates were subjected to SDS PAGE followed by western blot with 21290-1-AP (SMYD2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SMYD2 antibody (21290-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffinembedded rat heart tissue slide using 21290-1-AP (SMYD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat heart tissue slide using 21290-1-AP (SMYD2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).