

For Research Use Only

SMYD4 Polyclonal antibody

Catalog Number: 17594-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number: 17594-1-AP	GenBank Accession Number: BC035077	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 247 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 114826	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8IYR2	
Isotype: IgG	Full Name: SET and MYND domain containing 4	
Immunogen Catalog Number: AG11552	Calculated MW: 804 aa, 89 kDa	
	Observed MW: 89 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : HepG2 cells, IHC : human pancreas tissue, human hepatocirrhosis tissue IF : HepG2 cells,
Cited Applications: WB,IP,IHC,IF,CoIP	
Species Specificity: human, mouse, rat	
Cited Species: human, zebrafish	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

SMYD4, also named as SET and MYND domain-containing protein 4, is a 804 amino acid protein, which contains 1 MYND-type zinc finger and 1 SET domain. SMYD4 belongs to the class V-like SAM-binding methyltransferase superfamily. SMYD4, as a potential tumor suppressor, plays a critical role in breast carcinogenesis at least partly through inhibiting the expression of Pdgfr-alpha, and could be a novel target for improving treatment of breast cancer. SMYD4 is a muscle-specific transcriptional modulator involved in development.

Notable Publications

Author	Pubmed ID	Journal	Application
Deyong Xiao	30110327	PLoS Genet	WB,IF,IHC,CoIP
Zhenyu Zhou	38438251	Cancer Sci	WB,IHC,IF,IP

Storage

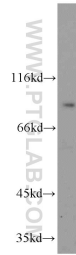
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

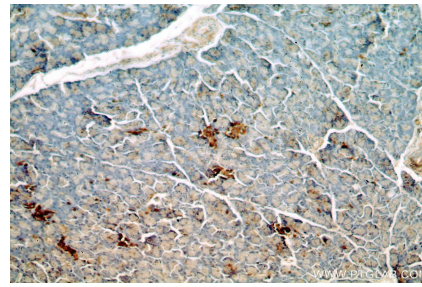
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

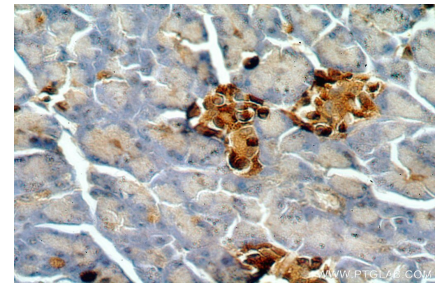
Selected Validation Data



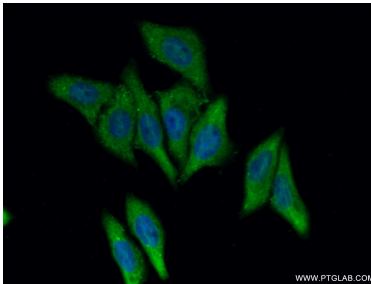
HepG2 cells were subjected to SDS PAGE followed by western blot with 17594-1-AP (SMYD4 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas using 17594-1-AP (SMYD4 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas using 17594-1-AP (SMYD4 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 17594-1-AP (SMYD4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).