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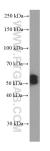
PHF10 Monoclonal antibody

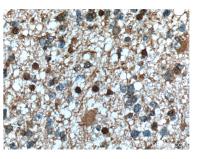
Catalog Number:66341-1-lg <u>3 Publications</u>

Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 66341-1-lg	GenBank Accession BC020954	Number:	Purification Method: Protein G purification	
	Size: 1500 µg/ml	GeneID (NCBI): 55274		CloneNo.: 4D4C6	
	Source: Mouse	UNIPROT ID: Q8WUB8		Recommended Dilutions: WB 1:500-1:2000	
	Isotype: IgG1 Immunogen Catalog Number: AG19096	Full Name: PHD finger protein 1	0	IHC 1:50-1:500	
		Calculated MW: 408 aa, 46 kDa			
		Observed MW: 56 kDa, 35 kDa			
Applications	Tested Applications:		Positive Controls:		
	IHC, WB,ELISA Cited Applications: WB, IF, CoIP		WB : fetal human brain tissue, HEK-293 cells, Neuro-2 cells		
	Species Specificity: human, mouse	Species Specificity:			
	Cited Species: human, mouse				
	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	PHF10, also named as BRG1-associated factor 45a, is a 498 amino acid protein, which locate in the nucleus and Belongs to the SAYP family. PHF10 Involve in transcription activity regulation by chromatin remodeling. It Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and is required for the proliferation of neural progenitors. During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth. PHF10 exists as several isoform and the calculated molecular weight of each isoform is 42 kDa, 37 kDa, 51 kDa, and 56 kDa.				
Notable Publications	Author	Pubmed ID Journ	al	Application	
		34724258 Glia		WB	
	Yuliang Feng	37739089 Gastr	oenterology	IF	
	Yuliang Feng	36909530 bioRx	tiv	ColP	
Storage	Storage:				

Selected Validation Data





fetal human brain tissue were subjected to SDS PAGE followed by western blot with 66341-1-1g (PHF 10 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 66341-1-1g (PHF 10 Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).