For Research Use Only

RNF20 Polyclonal antibody

Catalog Number:21625-1-AP

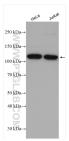
Featured Product

13 Publications

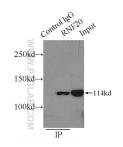


Basic Information	Catalog Number: 21625-1-AP	GenBank Accession N BC 110585	lumber:	Purification Method: Antigen affinity purification	
	Size:	GeneID (NCBI):		Recommended Dilutions:	
	150ul , Concentration: 350 µg/ml by	56254		WB 1:1000-1:8000	
	Nanodrop and 247 µg/ml by Bradford method using BSA as the standard;	Full Name: ring finger protein 20)	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate	
	Source:	Calculated MW:		IHC 1:50-1:500	
	Rabbit	975 aa, 114 kDa		IF 1:200-1:800	
	lsotype: IgG	Observed MW: 114 kDa			
	Immunogen Catalog Number: AG16066				
Applications	Tested Applications:		Positive Controls:		
	IF, IHC, IP, WB, ELISA Cited Applications:	WB : HeLa cells, MCF-7 cells, mouse liver tissue, Jur cells			
	IF, WB		IP : HeLa cells	5,	
	Species Specificity: human, mouse, rat		IHC : mouse kidney tissue,		
	Cited Species:		IF : HepG2 ce	lls, HeLa cells	
	human, mouse, pig				
	TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0				
Background Information	RNF20, also named as E3 ubiquitin-protein ligase BRE1A, is a 975 amino acid protein, which contains 1 RING-type zinc finger and belongs to the BRE1 family. RNF20 is a component of the RNF20/40 complex and localizes in the nucleus. RNF20 is a component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B. RNF20 is required for transcriptional activation of Hox genes and recruited to the MDM2 promoter, probably by being recruited by p53/TP53, and thereby acts as a transcriptional coactivator. RNF20/40 complex monoubiquitinates and stabilizes Eg5. Loss of RNF20/40 results in spindle assembly defects, cell cycle arrest and apoptosis. Spindle assembly role of the RNF20/40 complex, and implicates the RNF20/40-Eg5 axis in breast carcinogenesis, supporting the pursuit of these proteins as potential targets for breast cancer therapeutic interventions.				
Notable Publications	Author Pu	bmed ID Jour	nal	Application	
	Mengtian Zhang 36	103829 Cell	Rep	WB,IF	
	Ying Zhao 34	647359 Cell	Prolif	WB	
	Muyu Xu 29	791506 PLoS	Pathog	WB	
Starage	Storage: Store at -20°C. Stable for one year aft	er shipment.			
Storage	Storage Buffer: PBS with 0.02% sodium azide and 50	0, 1			
*** 20ul sizes contain 0.1% BSA	Storage Buffer:	0, 1			

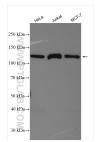
Selected Validation Data



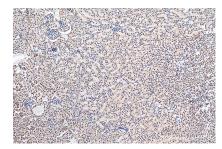
Various lysates were subjected to SDS PAGE followed by western blot with 21625-1-AP (RNF20 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



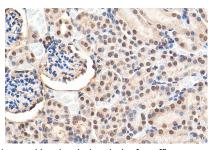
IP Result of anti-RNF20 (IP:21625-1-AP, 3ug; Detection:21625-1-AP 1:500) with HeLa cells lysate 2000ug.



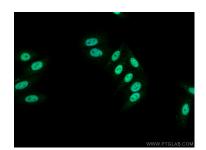
Various lysates were subjected to SDS PAGE followed by western blot with 21625-1-AP (RNF20 antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 21625-1-AP (RNF20 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 21625-1-AP (RNF20 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using RNF20 antibody (21625-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).