

RNF20 Recombinant antibody

Catalog Number: 85630-6-RR

Basic Information

Catalog Number: 85630-6-RR	GenBank Accession Number: BC110585	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 56254	CloneNo.: 243078G12
Source: Rabbit	UNIPROT ID: Q5VTR2	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: ring finger protein 20	
Immunogen Catalog Number: AG16066	Calculated MW: 975 aa, 114 kDa	
	Observed MW: 114 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : K-562 cells, HeLa cells, Jurkat cells, MCF-7 cells, HEK-293 cells, NIH/3T3 cells. C2C12 cells
	IF/ICC : U-87 MG cells,

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.

Storage

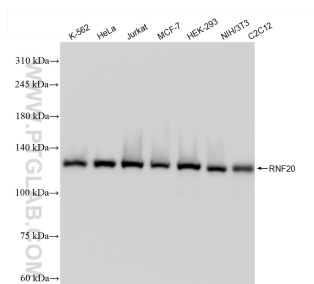
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

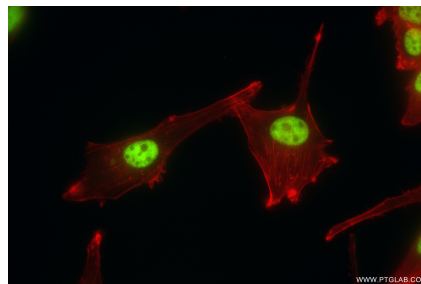
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85630-6-RR (RNF20 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed U-87 MG cells using RNF20 antibody (85630-6-RR, Clone: 243078G12) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).