For Research Use Only

RNF20 Polyclonal antibody Catalog Number:21625-1-AP Featured Product

Featured Product 14 Publications



| Basic Information | Catalog Number: 21625-1-AP | GenBank Accession No BC110585 | umber: | Purification Method: Antigen affinity purification | |
|------------------------|--|---|---|--|--|
| | Size: | GenelD (NCBI): | | Recommended Dilutions: | |
| | 150ul , Concentration: 350 ug/ml by Nanodrop and 247 ug/ml by Bradford | 56254 UNIPROT ID: Q5VTR2 Full Name: ring finger protein 20 | | WB 1:1000-1:8000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800 | |
| | method using BSA as the standard; | | | | |
| | Source: Rabbit | | | | |
| | lsotype: IgG | Calculated MW: 975 aa, 114 kDa | | | |
| | Immunogen Catalog Number: AG16066 | Observed MW: 114 kDa | | | |
| Applications | and the second se | | Positive Cont | e Controls: | |
| | WB, IHC, IF/ICC, IP, ELISA Cited Applications: | | WB : HeLa cells, MCF-7 cells, mouse liver tissue, Jurka cells IP : HeLa cells, | | |
| | WB, IF | | | | |
| | Species Specificity: human, mouse, rat | | IHC : mouse k | idney tissue, | |
| | Cited Species: human, mouse, pig | | IF/ICC : HepG | F/ICC : HepG2 cells, HeLa cells | |
| | 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 | 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. | | | | |
| | transcriptional activation and is also H3K79me, respectively). The RNF20/4 enzyme UBE2A or UBE2B. RNF20 is re- promoter, probably by being recruited complex monoubiquitinates and stab arrest and apoptosis. Spindle assemb breast carcinogenesis, supporting the | stone H2B (H2BK120ub prerequisite for histone 40 complex forms a H2I quired for transcription d by p53/TP53, and the vilizes Eg5. Loss of RNF ly role of the RNF20/40 | H3 'Lys-4' and B ubiquitin liga al activation of reby acts as a tr 20/40 results in 0 complex, and i | gives a specific tag for epigenetic 'Lys-79' methylation (H3K4me and se complex in cooperation with the E Hox genes and recruited to the MDM2 anscriptional coactivator. RNF20/40 spindle assembly defects, cell cycle implicates the RNF20/40-Eg5 axis in | |
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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 Goat Anti-Rabbit IgG(H+L).