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RNF20 Antibody

Rabbit mAb
Catalog # AP90076

Product Information

Application	WB, IF, FC, ICC, IP
Primary Accession	Q5VTR2
Reactivity	Human, Mouse
Clonality	Monoclonal
Other Names	BRE1-A; hBRE1; RING finger protein 20; E3 ubiquitin-protein ligase BRE1A; RNF20;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	113662

Additional Information

Dilution	WB 1:500~1:2000 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human RNF20
Description	RNF20 is an E3 ubiquitin ligase protein that mediates monoubiquitination of histone H2B and the methylation of histone H3. It forms a ubiquitin ligase complex in cooperation with the E2 enzyme UBE2E1/UBCH6. It thereby plays a central role in histone code and gene regulation. It is required for transcriptional activation of Hox genes.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

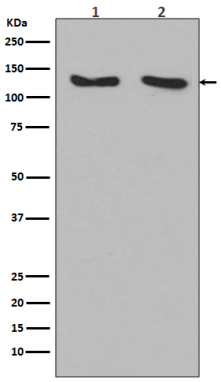
Protein Information

Name	RNF20
Synonyms	BRE1A
Function	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). It thereby plays a central role inb histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B; reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes. Recruited to the MDM2 promoter, probably by being recruited by p53/TP53, and thereby acts as a transcriptional coactivator. Mediates the polyubiquitination of isoform 2 of

PA2G4 in cancer cells leading to its proteasome-mediated degradation.

Cellular Location	Nucleus
Tissue Location	Expressed in the normal brain and also in malignant gliomas (at protein level).

Images



Western blot analysis of RNF20 expression in (1) 293 cell lysate; (2) HeLa cell lysate.