

# RNF20 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8509b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q5VTR2</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1,k
<b>Clone Names</b>	1594CT552.128.36
<b>Calculated MW</b>	113662

## Additional Information

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<b>Gene ID</b>	56254
<b>Other Names</b>	E3 ubiquitin-protein ligase BRE1A, BRE1-A, hBRE1, 632-, RING finger protein 20, RNF20, BRE1A
<b>Target/Specificity</b>	This RNF20 antibody is generated from a mouse immunized with a recombinant protein of human RNF20.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	RNF20 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	RNF20
<b>Synonyms</b>	BRE1A
<b>Function</b>	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 in 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).

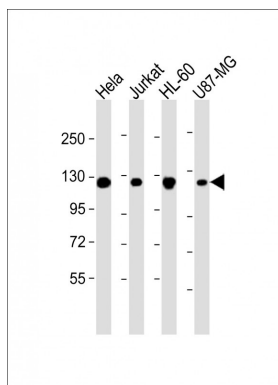
## Background

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 in 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.

## References

Wu H., et al. Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.  
 Ota T., et al. Nat. Genet. 36:40-45(2004).  
 Humphray S.J., et al. Nature 429:369-374(2004).  
 Bechtel S., et al. BMC Genomics 8:399-399(2007).  
 Zhu B., et al. Mol. Cell 20:601-611(2005).

## Images



All lanes : Anti-RNF20 Antibody at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: HL-60 whole cell lysate Lane 4: U87-MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 114 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.