

Recombinant human RNF20 protein ab198645

2 Images

Description	
Product name	Recombinant human RNF20 protein
Biological activity	Assay Conditions: 50 µl reaction mix (4 mM ATP, 5 mM MgCl <sub>2</sub> , 1 mM DTT, E1 (0.5 µg), E2 (2.8 µg), Biotin-Ubiquitin and ab198645 in 50 mM Tris (pH 7.4) incubate for 30 min at 37°C. Then add to streptavidin coated plates and incubate for 30 min at 37°C. Add antibody against RNF20, incubate 1 hour. Finally, incubate 1 hour with the HRP-labeled secondary antibody.
Purity	>= 50 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q5VTR2</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	SGIGNKRAAGEPGTSMPEKKAAVEDSGTTVETIKLGGVS STEELDIRTL QTKNRKLAEMLDQRQAIEDELREHIEKLERRQATDDASLLI VNRYWSQFD ENIRILKRYDLEQGLGDLLTERKALVVPEPEPDSDSNQER KDDRERGE QEPAFSFLATLASSSSEEMESQLQERVESRRRAVSQMT VYDKLQEKVEL LSRKLNSGDNLVEEAVQELNSFLAQENMRLQELTDLLQE KHRTMSQEFS KLQSKVETAESRVSVLESMDLQWDIDKIRKREQRLNRH LAEVLERVNS KGYKVYAGSSLYGGTITINARKFEEMNAELENKELAQN RLCELEKLRQ DFEEVTTQNEKLKVELRSERVEVVKETPEYRCMQSQFSV LYNESLQLKAH LDEARTLLHGTRGTHQHQVELIERDEVSLHKKLRTEVIQLE DTLAQVRKE YEMLRIEFEQTLAANEQAGPINREMRHLISLQNHNLKLG EVLRYKRKL REASDLNKTRLRSGSALLQSQSSTEDPKDEPAELKPDS

EDLSSQSSASK  
 ASQEDANEIKSKRDEEEERERERREKEREREREREKEKER  
 EREKQKLKESE  
 KERDSAKDKEKGKHDDGRKKEAEIIKQLKIELKKAQESQK  
 EMKLLLDMYR  
 SAPKEQRDKVQLMAAEKKSKELEDLRQLKDLEDKEK  
 KENKKMADEDAL  
 RKIRAVEEQIEYLQKKLAMAKQEEEALLSEMDVTGQAFED  
 MQEQNIRLMQ  
 QLREKDDANFKLMSEIKSNQIHKLLKEEKEELADQVLT  
 KTQVDAQLVQ  
 VRKLEEKELHLLQSNIGTGEKELGLRTQALEMNRKAMEAA  
 QLADDLKAQL  
 ELAQKKLHDFQDEIVENSVTKEKDMFNFKRAQEDISRLRR  
 KLETTKKPDN  
 VPKCDEILMEEIKDYKARLTCPCCNMRKKDAVLTKCFHVF  
 CFECVKTRYD TRQRKCPKCNAAFGANDFHRYIG

<b>Predicted molecular weight</b>	115 kDa including tags
<b>Amino acids</b>	2 to 975
<b>Tags</b>	His-DDDDK tag N-Terminus
<b>Additional sequence information</b>	NM_019592.

## Specifications

Our **Abpromise guarantee** covers the use of **ab198645** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Liquid

## Preparation and Storage

<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.  pH: 8.00 Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol  Contains 80 ng/μl DDDDK peptide.  This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

<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
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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.

**Tissue specificity**

Expressed in the normal brain and also in malignant gliomas (at protein level).

**Pathway**

Protein modification; protein ubiquitination.

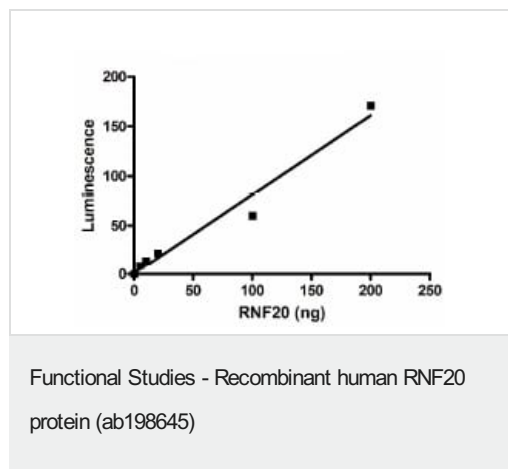
**Sequence similarities**

Belongs to the BRE1 family.  
Contains 1 RING-type zinc finger.

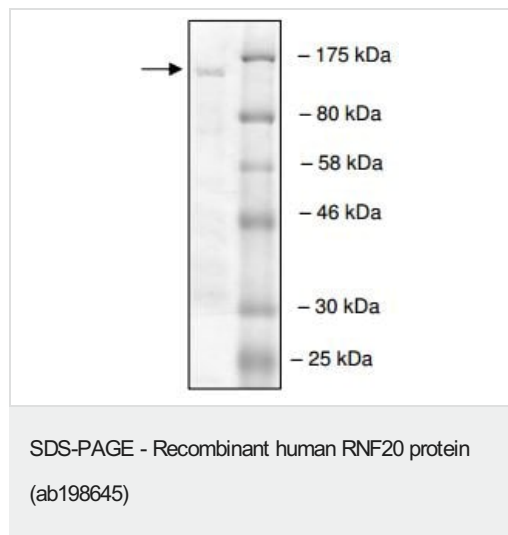
**Cellular localization**

Nucleus.

**Images**



Activity activity using ab198645.



10% SDS-PAGE analysis of 0.1 µg ab198645 with Coomassie staining.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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