

Product datasheet

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 ₂ , 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	Q5VTR2
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human

Sequence	<p>SGIGNKRAAGEPGTSMPEKKAAVEDSGTTVETIKLGGVS STEELDRTL QTKNRKLAEMLDQRQAIEDELREHIEKLERRQATDDASLLI VNRYSQFD ENIRILKRYDLEQGLGDLTERKALVVPEPEPDSDSNQR KDDREREGG QEPAFSFLATLASSSSEEMESQLQERVESRRRAVSQMT VYDKLQEKVEL LSRKLNSGDNLVVEAVQELNSFLAQENMRLQELTDLLQE KHRTMSQEFS KLQSKVETAESRVSVLESMDLQWDIDKIRKREQRLNRH LAEVLERVNS KGYKVYAGSSLYGGTITINARKFEEMNAELENKELAQN RLCELEKLRQ DFEEVTTQNEKLVKVELRSVEQVVKETPEYRCMQSQFSV LYNESLQLKAH LDEARTLLHGTRGTHQHQVELIERDEVSLHKKLRTEVIQLE DTLAQVRKE YEMLRIEFEQTLAANEQAGPINREMRHLISSLQNHNHQLKG EVLRYKRKL REAQSDLNKTRLRSGSALLQSQSSTEDPKDEPAELKPD</p>
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EDLSSQSSASK
ASQEDANEIKSKRDEEEERERERREKEREREREREKEKER
EREKQKLKES
KERDSAKDKEKGKHDDGRKKEAEIKQLKIELKKAQESQK
EMKLLDMYR
SAPKEQRDKVQLMAAEKKSKELEDLRQLKDLEDKEK
KENKKMADEDAL
RKIRAVEEQIEYLQKKLAMAKQEEEALLSEMDVTGQAFED
MQEQNIRLMQ
QLREKDDANFKLMSERIKSNQIHKLLKEEKEELADQVLT
KTQVDAQLVQ
VRKLEEKEHLLQSNIGTGEKELGLRTQALEMNKRKAMEAA
QLADDLKAQL
ELAQQKLHDFQDEIVENSVTKEKDMFNFKRAQEDISRLRR
KLETTKKPDN
VPKCDEILMEEIKDYKARLTCPCCNMRKKDAVLTKCFHVF
CFECVKTRYD TRQRKCPKCNAAFGANDFHRYIG

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

Applications	SDS-PAGE Functional Studies
Form	Liquid

Preparation and Storage

Stability and Storage	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

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 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.

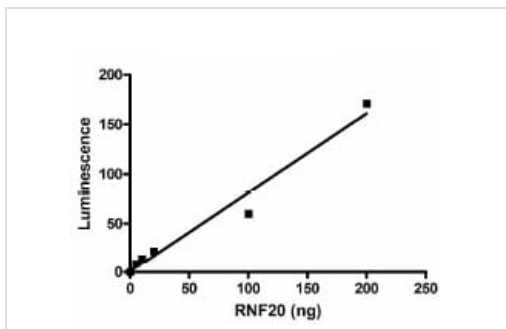
Sequence similarities

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

Cellular localization

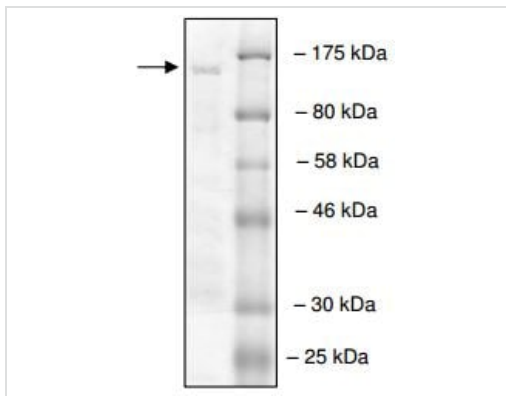
Nucleus.

Images



Activity activity using ab198645.

Functional Studies - Recombinant human RNF20 protein (ab198645)



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

SDS-PAGE - Recombinant human RNF20 protein (ab198645)

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