abcam

Product datasheet

Anti-RNF8 antibody ab15850

2 Abreviews 2 References 2 图像

概述

产品名称	Anti-RNF8抗体
描述	**山羊多克隆抗体**to RNF8
宿主	Goat
经测试应用	**适用于:** WB
种属反应性	**与反应:** Human
免疫原	Synthetic peptide: GEPGFFVTGDRAG-C , corresponding to N terminal amino acids 2-14 of Human RNF8. (Peptide available as **ab23278**.) Run BLAST with Run BLAST with
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.05% Tris buffered saline, 0.5% BSA
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab15850于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	(1)	Use a concentration of 0.1 - 1 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 56 kDa). A 1 hour primary incubation is recommended for this product.

靶标

功能 E3 ubiquitin-protein ligase required for assembly of repair proteins to sites of DNA damage. Catalyzes the 'Lys-63'-linked ubiquitination of histone H2A and H2AX. Following DNA double-strand breaks (DSBs), it is recruited to the sites of damage by ATM-phosphorylated MDC1, mediates the ubiquitination of histones H2A and H2AX, thereby promoting the formation of TP53BP1 and BRCA1 ionizing radiation-induced foci (IRIF). Promotes the formation of 'Lys-63'-linked polyubiquitin chains and functions with the specific ubiquitin-conjugating UBE2N/UBC13. Substrates that are polyubiquitinated at 'Lys-63' are usually not targeted for degradation. Enforces the G2/M DNA damage checkpoint. Controls the recruitment of UIMC1-BRCC3 (RAP80-BRCC36) and PAXIP1/PTIP to DNA damage sites following DNA double-strand breaks (DSBs). Ubiquitination of histone H2A requires UBE2N but not MMS2 (UBE2V2). May also ubiquitinate histone H2B. Catalyzes the 'Lys-63'-linked ubiquitination of PCNA. May be required for proper exit from mitosis after spindle checkpoint activation and may regulate cytokinesis. May play a role in the regulation of RXRA-mediated transcriptional activity. Not involved in RXRA ubiquitination by UBE2E2.

组织特异性 Ubiquitous. In fetal tissues, highest expression in brain, thymus and liver. In adult tissues, highest levels in brain and testis, lowest levels in peripheral blood cells.

通路 Protein modification; protein ubiquitination.

序列相似性 Belongs to the RNF8 family.
Contains 1 FHA domain.
Contains 1 RING-type zinc finger.

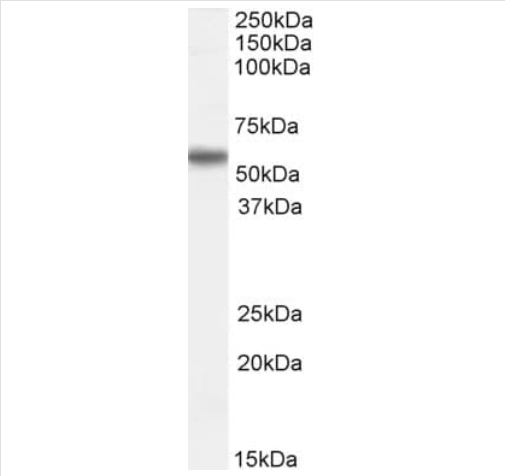
发展阶段 Low levels at the G1-S boundary increase in intensity during S phase and until the end of the G2 phase. Abruptly decreases in late mitosis (at protein level). Barely detectable in anaphase.

结构域 The FHA domain specifically recognizes and binds ATM-phosphorylated MDC1 and Thr-4827 phosphorylated HERC2.

翻译后修饰 Autoubiquitinated through 'Lys-48' and 'Lys-63' of ubiquitin. 'Lys-63' polyubiquitination is mediated by UBE2N. 'Lys-29'-type polyubiquitination is also observed, but it doesn't require its own functional RING-type zinc finger.

细胞定位 Nucleus. Midbody. Following DNA double-strand breaks, recruited to the sites of damage. During prophase, concomitant with nuclear envelope breakdown, localizes throughout the cell, with a dotted pattern. In telophase, again in the nucleus and also with a discrete dotted pattern in the cytoplasm. In late telophase and during cytokinesis, localizes in the midbody of the tubulin bridge joining the daughter cells. Does not seem to be associated with condensed chromosomes at any time during the cell cycle.

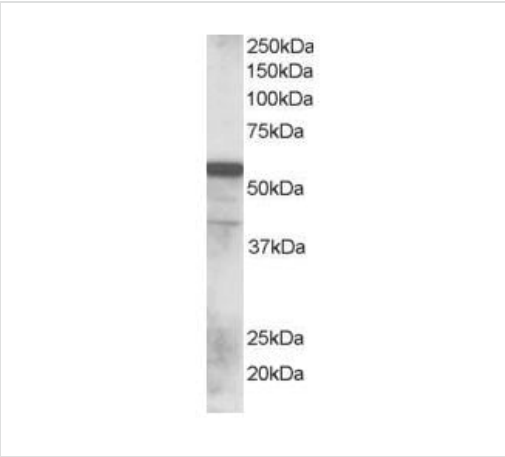
图片



Western blot - Anti-RNF8 antibody (ab15850)

Anti-RNF8 antibody (ab15850) at 0.1 µg/ml + Human placenta lysate at 35 µg

Predicted band size: 56 kDa



Western blot - Anti-RNF8 antibody (ab15850)

Anti-RNF8 antibody (ab15850) at 0.1 µg/ml + Lysates prepared from human lung tissues at 35 µg

Predicted band size: 56 kDa

ab15850 staining human RNF8 at 0.1 µg/ml in lung lysate (35 µg) by Western blot (chemiluminescence).

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