abcam

Product datasheet

Anti-MDC1 antibody [MDC1-50] ab50003

3 Abreviews 15 References

概述

产品名称	Anti-MDC1抗体[MDC1-50]
描述	**小鼠单克隆抗体**[MDC1-50] to MDC1
宿主	Mouse
经测试应用	**适用于:** ICC, IP, ICC/IF, WB
种属反应性	**与反应:** Human, Monkey
免疫原	Recombinant fragment, corresponding to amino acids 2-200 of Human MDC1
阳性对照	WB: total cell extract of G361 cells.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
纯化说明	This antibody is a purified Mouse Immunoglobulin.
克隆	单克隆
克隆编号	MDC1-50
骨髓瘤	NS1
同种型	IgG2a

应用

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab50003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
ICC		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ICC/IF	★★★★☆ (3)	Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

靶标

功能	Required for checkpoint mediated cell cycle arrest in response to DNA damage within both the S phase and G2/M phases of the cell cycle. May serve as a scaffold for the recruitment of DNA repair and signal transduction proteins to discrete foci of DNA damage marked by 'Ser-139' phosphorylation of histone H2AFX. Also required for downstream events subsequent to the recruitment of these proteins. These include phosphorylation and activation of the ATM, CHEK1/CHK1 and CHEK2/CHK2/CDS1 kinases, and stabilization of TP53 and apoptosis. ATM and CHEK2 may also be activated independently by a parallel pathway mediated by TP53BP1.
组织特异性	Highly expressed in testis.
序列相似性	Contains 2 BRCT domains. Contains 1 FHA domain.
结构域	Tandemly repeated BRCT domains are characteristic of proteins involved in DNA damage signaling. In MDC1, these repeats are required for localization to chromatin which flanks sites of DNA damage marked by 'Ser-139' phosphorylation of H2AFX.
翻译后修饰	Phosphorylated upon exposure to ionizing radiation (IR), ultraviolet radiation (UV), and hydroxyurea (HU). Phosphorylation in response to IR requires ATM, NBN, and possibly CHEK2. Also phosphorylated during the G2/M phase of the cell cycle and during activation of the mitotic spindle checkpoint.
细胞定位	Nucleus. Associated with chromatin. Relocalizes to discrete nuclear foci following DNA damage, this requires 'Ser-139' phosphorylation of H2AFX. Colocalizes with APTX at sites of DNA double-strand breaks.

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