abcam

Product datasheet

Apoptosis and DNA Damage (H2A.X(S139) + cleaved PARP1 + Anti-GAPDH) Western Blot Cocktail ab131385

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概述

产品名称	Apoptosis and DNA Damage (H2A.X(S139) + cleaved PARP1 + Anti-GAPDH) Western Blot Cocktail
种属反应性	**与反应:** Human **不与反应:** Mouse, Rat
产品概述	The Apoptosis and DNA Damage (H2A.X(S139) + cleaved PARP1 + Anti-GAPDH) Western Blot Cocktail (ab131385) is designed to study the induction of DNA damage and/or apoptosis in response to various stimuli. The two main components of this cocktail are monoclonal antibodies specific to cleaved-PARP1 and H2A.X phospho Ser139. H2A.X is a histone H2A family member that is phosphorylated and recruited to sites of double-strand DNA breaks. Poly [ADP-ribose] polymerase 1 (PARP1) is a DNA repair enzyme that is cleaved by activated caspases. Combined, these antibodies provide biomarkers of dsDNA breaks (H2A.X phospho Ser139) and apoptosis (cleaved-PARP1). An anti-GAPDH antibody is included as a loading control. These three readouts are easily resolved by western blot given their different molecular weights.
说明	Individual antibodies within the ab131385 cocktail: Mouse phospho-H2A.X (pSer139) [9F3] monoclonal, IgG Working concentration: 1 µg/ml Mouse cleaved-PARP1 [4B5BD2] monoclonal, IgG1 Working concentration: 1 µg/ml Mouse GAPDH [3E8AD9] monoclonal, IgG2b: Working concentration: 0.1 µg/ml
经测试应用	**适用于:** WB

性能

存放说明	Store at -20°C. Please refer to protocols.

组件	**200 µl**
Antibody cocktail	1 x 100µg

细胞定位	Cleaved PARP1: Nucleus. Nucleus, nucleolus. Localizes at sites of DNA damage. Histone

H2A.X: Nucleus. Chromosome. GAPDH: Cytoplasm > cytosol. Nucleus. Cytoplasm > perinuclear region. Membrane. Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions.

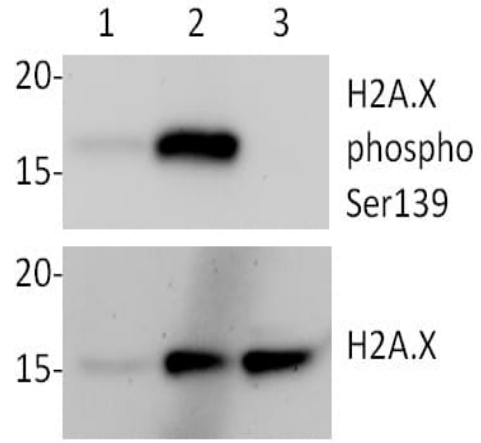
应用

The Abpromise guarantee **Abpromise™承诺保证使用ab131385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		1/250. Predicted molecular weight: 15, 36, 89 kDa. (Entire WB procedure to be done in 4% milk/PBS. Note that pH2A.X is ~16 kDa, hence do not run the SDS-PAGE gel too long. Use anti-Mouse-HRP secondary antibody.)

图片



Western blot - Anti-GAPDH + H2A.X(S139) + cleaved PARP1 antibody (ab131385)

All lanes :

Top panel: H2A.X (pSer139) antibody at 1 µg/mL.

Bottom panel: total H2A.X antibody at a 1/2000 dilution

Lane 1 : Jurkat cell lysate, untreated

Lane 2 : Jurkat cell lysate, 4h post UV exposure

Lane 3 : Jurkat cell lysate, 4h post UV exposure, treated with phosphatase

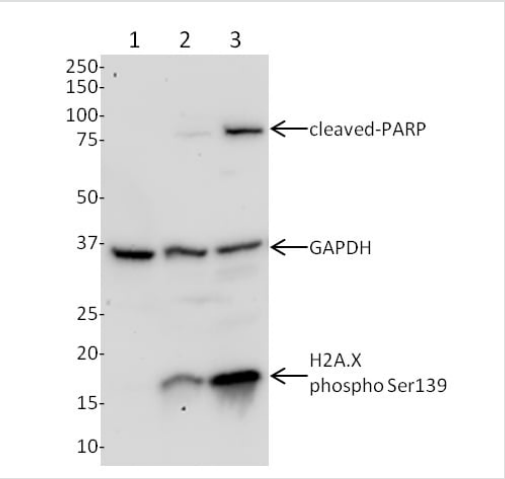
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Top panel: Goat anti Mouse HRP at a 1/3000 dilution

Bottom panel: Goat anti Rat HRP at a 1/3000 dilution

Predicted band size: 15, 36, 89 kDa



Western blot - Anti-GAPDH + H2A.X(S139) + cleaved PARP1 antibody (ab131385)

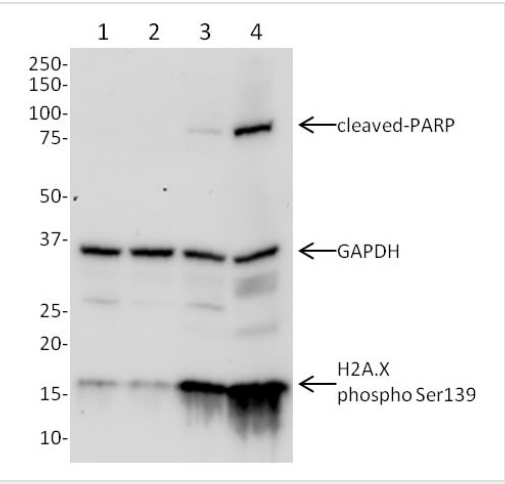
All lanes : Apoptosis and DNA Damage (H2A.X(S139) + cleaved PARP1 + Anti-GAPDH) Western Blot Cocktail (ab131385) at 1/250 dilution (DNA Damage and Apoptosis cocktail (**ab131384**))

Lane 1 : HeLa cell lysate, untreated
Lane 2 : HeLa cell lysate, 20 µM Camptothecin 4h treatment
Lane 3 : HeLa cell lysate, 1 µM Staurosporin 4h treatment

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat anti Mouse HRP at 1/3000 dilution

Predicted band size: 15, 36, 89 kDa



Western blot - Anti-GAPDH + H2A.X(S139) + cleaved PARP1 antibody (ab131385)

All lanes : Apoptosis and DNA Damage (H2A.X(S139) + cleaved PARP1 + Anti-GAPDH) Western Blot Cocktail (ab131385) at 1/250 dilution (Damage and Apoptosis cocktail (**ab131384**))

Lane 1 : Jurkat cell lysate, untreated
Lane 2 : Jurkat cell lysate, 1h post UV exposure
Lane 3 : Jurkat cell lysate, 2h post UV exposure
Lane 4 : Jurkat cell lysate, 4h post UV exposure

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti Mouse HRP at 1/3000 dilution

Predicted band size: 15, 36, 89 kDa

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