abcam

Product datasheet

Anti-Histone H2B (phospho S32) antibody ab10476

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製品の概要

製品名 Anti-Histone H2B (phospho S32) antibody

製品の詳細 Rabbit polyclonal to Histone H2B (phospho S32)

This product is a fast track antibody. It has been affinity purified and shows high titre values against the immunizing peptide by ELISA. Read the terms of use »

種交差性 **交差種:** Human

交差が予測される動物種: Mouse

免疫原 Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Histone H2B, phosphorylated at S32. Immunogen の所有権に関して (Peptide available as ab18504.)

特記事項

Serine 32 of Histone H2B was highlighted as being highly conserved in Cheung et al, indicating that it might be a good candidate phosphorylation site.

製品の特性

製品の状態 Liquid

保存方法 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.

バッファー Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4

精製度 Immunogen affinity purified

一次抗体 備考 Serine 32 of Histone H2B was highlighted as being highly conserved in Cheung et al, indicating that it might be a good candidate phosphorylation site.

ポリ/モノ ポリクローナル

アイソタイプ IgG

アプリケーション

Fast track antibodies constitute a diverse group of products that have been released to accelerate your research, but are not yet fully characterized. They have all been affinity purified and show high titre values against the immunizing peptide (by ELISA).

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★☆	1/200.
ELISA		Use at an assay dependent concentration. : This antibody gave a positive result in ELISA against the immunizing peptide (ab18504).

ターゲット情報

関連性

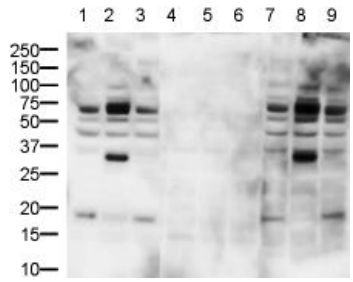
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. Linker histones are involved in the formation of higher order structure in chromatin and the maintenance of overall chromatin compaction. Whilst the core histones are highly conserved across a wide range of organisms, the linker histones are less conserved.

細胞内局在

Nuclear

画像

This Fast-Track antibody is not yet fully characterised. These images represent **inconclusive preliminary data**.



Western blot - Anti-Histone H2B (phospho S32) antibody (ab10476)

All lanes : Anti-Histone H2B (phospho S32) antibody (ab10476) at 1/500 dilution

Lane 1 : Hela control
Lane 2 : Gamma irraditaed hela 1h
Lane 3 : Gamma irraditaed hela 2h
Lane 4 : Hela control with Human Histone H2B (phospho S32) peptide (ab18504) at 1 µg/ml
Lane 5 : Gamma irraditaed hela 1h with Human Histone H2B (phospho S32) peptide (ab18504) at 1 µg/ml
Lane 6 : Gamma irraditaed hela 2h with Human Histone H2B (phospho S32) peptide (ab18504) at 1 µg/ml
Lane 7 : Hela control with Human Histone H2B peptide (ab18507) at 1 µg/ml
Lane 8 : Gamma irraditaed hela 1h with Human Histone H2B peptide (ab18507) at 1 µg/ml
Lane 9 : Gamma irraditaed hela 2h with

Lane 5 : Gamma irraditaed hela 2h with Human Histone H2B peptide (ab18507) at 1 µg/ml

Lysates/proteins at 25 µg per lane.

Secondary
Goat Anti-Rabbit IgG H&L (HRP) (ab6721) at 1/5000 dilution

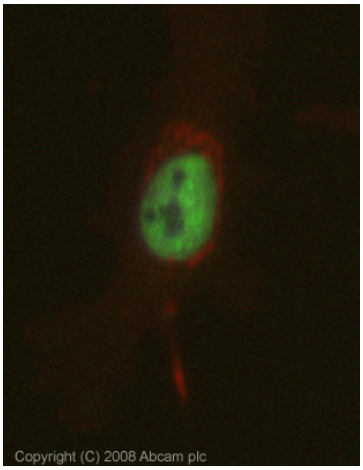
Performed under reducing conditions.

Observed band size : 15 kDa

Exposure time : 1 minute

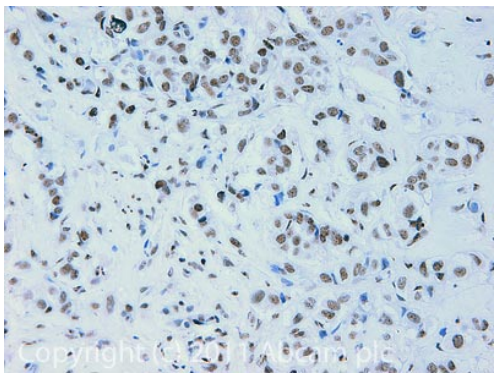
Western blot using ab10476 at 1/500 on HeLa lysates taken at various time points after gamma irradiation (ab13823).

Lane 1 : Hela control
Lane 2 : Gamma irraditaed hela 1h
Lane 3 : Gamma irraditaed hela 2h
Lane 4 : Hela control + Histone H2B peptide - phospho S32 (ab18504)



Immunocytochemistry/ Immunofluorescence - Anti-Histone H2B (phospho S32) antibody (ab10476)

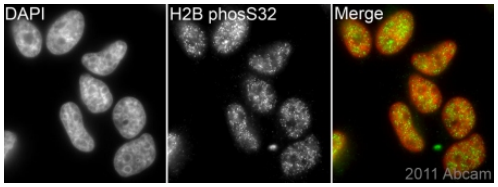
ICC/IF image of ab10476 stained HeLa cells. The cells were 4% PFA fixed (10 min), permabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab10476, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive IF result in HepG2, Hek293 and MCF7 cells fixed in 4% PFA at 1ug/ml and Hela, Hek293, HepG2 and MCF7 cells fixed in 100% methanol at 1ug/ml. However, this Fast-Track antibody is not yet fully characterised. This image represents inconclusive preliminary data.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H2B (phospho S32) antibody (ab10476)

IHC image of ab10476 staining in Human Breast adenocarcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab10476, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-Histone H2B (phospho S32) antibody (ab10476)

Image courtesy of an abreview submitted by Dr. Kirk McManus, Univ. of Manitoba/Cancer Care MICB, Canada

ab10476 (1/200) staining Histone H2B phospho S32 in Hela cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.5% Triton X100 and counterstained with DAPI in order to highlight the nucleus (red). for further experimental details please refer to Abreview.

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