Product datasheet

Anti-Histone H1 antibody ab61177

Overview

Product name  Anti-Histone H1 antibody
Description  Rabbit polyclonal to Histone H1
Host species  Rabbit
Specificity  Detects total Histone H1 levels.
Tested applications  Suitable for: IHC-P, WB, ELISA, ICC/IF
Species reactivity  Reacts with: Mouse, Human
Immunogen  Synthetic non-phosphopeptide derived from human Histone H1 around the phosphorylation site of threonine 17 (E-KT^P-P-V).
Positive control  IHC-P: Human normal colon FFPE tissue sections.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer  pH: 7.40
Preservative: 0.02% Sodium azide
 Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride
Without Mg2+ and Ca2+
Purity  Immunogen affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab61177 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Function
May play a key role in the control of gene expression during oogenesis and early embryogenesis, presumably through the perturbation of chromatin structure. Essential for meiotic maturation of germinal vesicle-stage oocytes. The somatic type linker histone H1c is rapidly replaced by H1oo in a donor nucleus transplanted into an oocyte. The greater mobility of H1oo as compared to H1c may contribute to this rapid replacement and increased instability of the embryonic chromatin structure. The rapid replacement of H1c with H1oo may play an important role in nuclear remodeling.

Tissue specificity
Oocyte-specific.

Sequence similarities
Belongs to the histone H1/H5 family.
Contains 1 H15 (linker histone H1/H5 globular) domain.

Cellular localization

IHC-P
Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

WB ★★★★★
1/500 - 1/1000. Predicted molecular weight: 36 kDa.

ELISA
1/5000.

ICC/IF
1/500 - 1/1000.

Target

Images

All lanes: Anti-Histone H1 antibody (ab61177) at 1/500 dilution

Lane 1: extracts from COLO cells
Lane 2: extracts from COLO cells with synthesized peptide

Predicted band size: 36 kDa
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1 antibody (ab61177)

IHC image of ab61177 staining Histone H1 in human colon formalin fixed paraffin embedded tissue sections, performed on a Leica Bond. 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 ab61177, 1µg/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. No primary antibody was used in the negative control (shown on the inset).

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.

ab61177 at 1/500 - 1/1000 dilution staining Histone H1 in HuvEc cells, treated with serum (20%, 15mins) by Immunofluorescence.
Paraffin-embedded human colon carcinoma tissue stained for Histone H1 with ab61177 at 1/50 dilution in immunohistochemical analysis.

The sample in the right-hand panel is incubated with the immunizing peptide.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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