abcam

Product datasheet

ChIP Kit ab500

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Overview

Product name ChIP Kit

Sample type Adherent cells, Suspension cells

Product overview ChIP kit ab500 provides a protocol and reagents for running ChIP assays including:
- cell lysis and chromatin extraction
- chromatin shearing and DNA fragment length analysis
- immunoprecipitation and DNA purification

DNA produced using the kit can be analyzed using qPCR.

The kit has been validated for ChIP assays with mammalian samples.

Chinese protocol available. See protocols section below.

Notes This kit uses Protein A sepharose beads for antibody pulldown. See table below for Protein A and Protein G binding affinities with antibodies from commonly used species. For other species of antibody, consult the table in the protocol booklet.

Species raised in	Isotype	Protein A binding affinity	Protein G binding affinity
Rabbit	All isotypes	+++	++
Goat	All isotypes	-	++
Mouse	IgG1	+	+++
	IgG2a	+++	+++
	IgG2b	++	++

	IgG3	+	+
	IgM	Use anti-mouse IgM	

ChIP assay products and guides

Find more **ChIP assay / chromatin immunoprecipitation** resources and products, **ChIP antibody** products, and other **ChIP assay kits and related reagents**.

Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Tested applications

Suitable for: ChIP
Unsuitable for: ChIP-seq

Properties

Storage instructions

Please refer to protocols.

Components	1 kit
1.25M Glycine	1 x 10ml
Buffer A	1 x 10ml
Buffer B	1 x 30ml
Buffer C	1 x 30ml
Buffer D	1 x 3ml
ChIP Buffer 5X	1 x 84ml
DNA Purifying Slurry	1 x 4ml
ab1791 - H3 antibody	1 x 25µg
PCR-Grade Water	1 x 10.2ml
Protease Inhibitors	1 tablet
Protein A Beads Unblocked	1 x 960µl
Proteinase K	1 x 40µl

Applications

The Abpromise guarantee

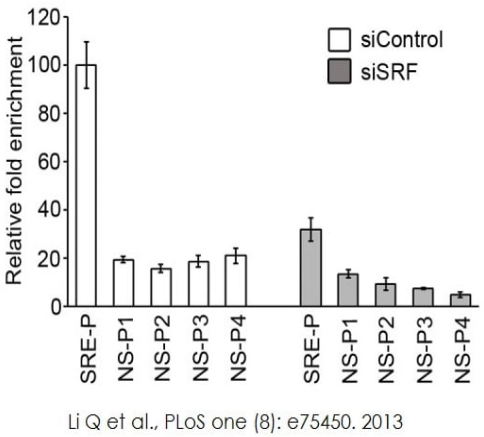
Our **Abpromise guarantee** covers the use of ab500 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ChIP		Use at an assay dependent concentration.

Application notes Is unsuitable for ChIP-seq.

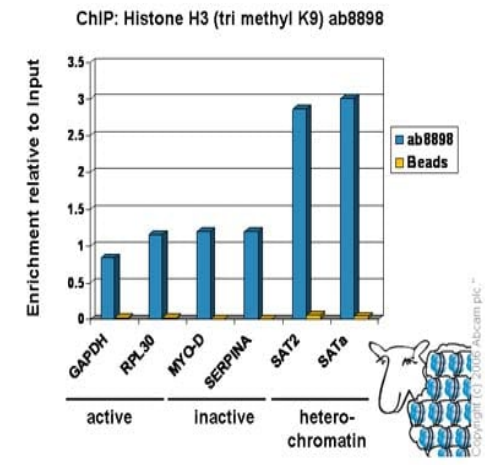
Images



ChiP

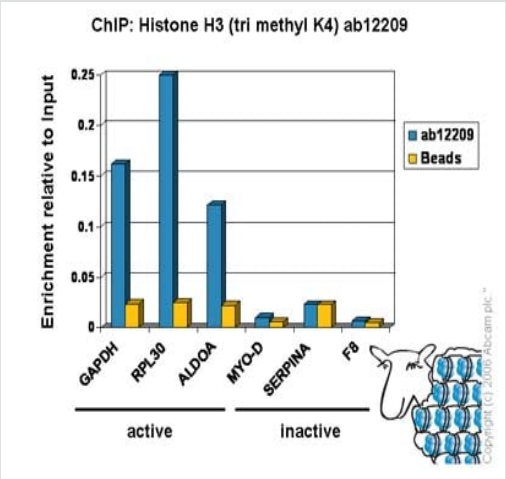
Li Q., PLoS One 8(9). Fig 2c. doi: 10.1371/journal.pone.0075470. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

Chromatin immunoprecipitation assay was performed to define the interaction of serum response factor (SRF) with the intragenic serum response element (SRE) regulatory motif in mouse using ab500 ChIP Kit.



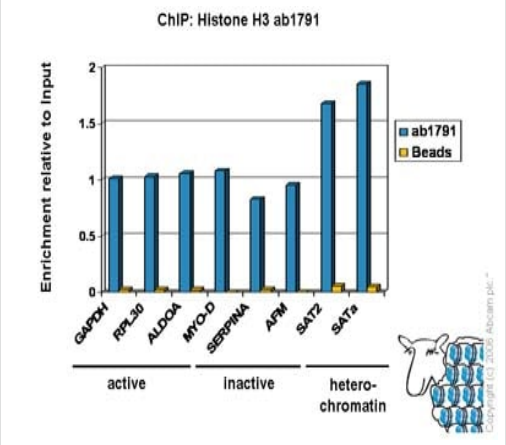
ChIP - ChIP Kit (ab500)

Chromatin immunoprecipitation using ab500 ChIP Kit and Histone H3 (tri methyl K9) antibody (ab8898). Chromatin was prepared from HeLa cells using the Abcam ChIP kit protocol. Cells were fixed with formaldehyde for 10 min. ChIP was performed with 2 µg of **ab8898** (blue). No antibody was added to the beads control (yellow). Immunoprecipitated DNA was quantified by real time PCR (Taqman approach for active/inactive loci, Sybr green approach for heterochromatic loci). Primers and probes are located in the first kb of transcribed region.



ChIP - ChIP Kit (ab500)

Chromatin immunoprecipitation using ab500 ChIP Kit and Histone H3 (tri methyl K4) antibody (ab12209). Chromatin was prepared from HeLa cells using the Abcam ChIP kit protocol. Cells were fixed with formaldehyde for 10 min. ChIP was performed with 5 µg of **ab12209** (blue). No antibody was added to the beads control (yellow). Immunoprecipitated DNA was quantified by real time PCR (Taqman approach for active/inactive loci). Primers and probes are located in the first kb of the transcribed region.



ChIP - ChIP Kit (ab500)

Chromatin immunoprecipitation using ab500 ChIP Kit and Histone H3 antibody (ab1791). Chromatin was prepared from HeLa cells using the Abcam ChIP kit protocol. Cells were fixed with formaldehyde for 10 min. ChIP was performed with 2 µg of **ab1791** (blue). No antibody was added to the beads control (yellow). Immunoprecipitated DNA was quantified by real time PCR (Taqman approach for active/inactive loci, Sybr green approach for heterochromatic loci). Primers and probes are located in the first kb of the transcribed region.

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