


Anti-HOXB13 antibody [mAbcam53931] ab53931

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Overview

Product name	Anti-HOXB13 antibody [mAbcam53931]
Description	Mouse monoclonal [mAbcam53931] to HOXB13
Host species	Mouse
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 100 - 200 of Human HOXB13. Read Abcam's proprietary immunogen policy (Peptide available as ab57024 .)
Positive control	This antibody gave a positive signal against the HOXB13 (Human) Recombinant Protein.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituent: 1% BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	mAbcam53931

Myeloma	Sp2/0-Ag14
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab53931 in the following tested applications.

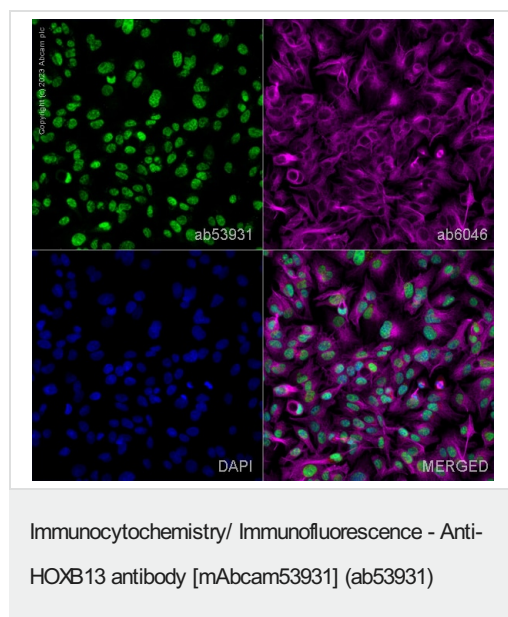
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use 1 µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
WB		Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 57 kDa corresponding to the tagged recombinant HOXB13 protein
ICC/IF		Use a concentration of 1 µg/ml.

Target

Function	Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis.
Sequence similarities	Belongs to the Abd-B homeobox family. Contains 1 homeobox DNA-binding domain.
Cellular localization	Nucleus.

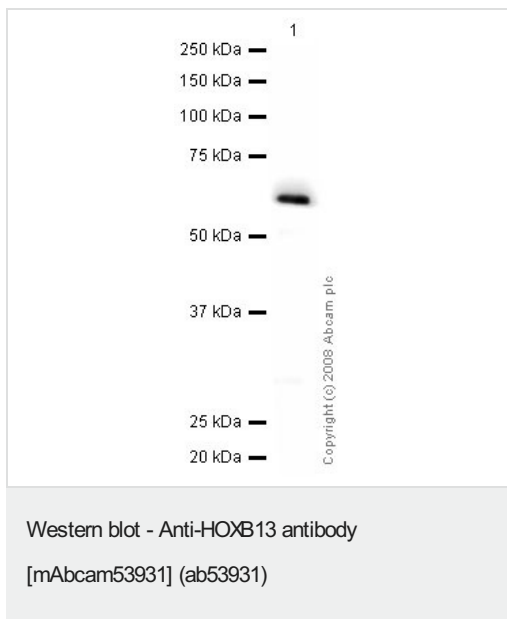
Images



ab53931 staining HOXB13 in HepG2 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab53931 at 5µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal

sections is shown.



Anti-HOXB13 antibody [mAbcam53931] (ab53931) at 5 µg/ml +
HOXB13 Recombinant protein at 0.1 µg

Secondary

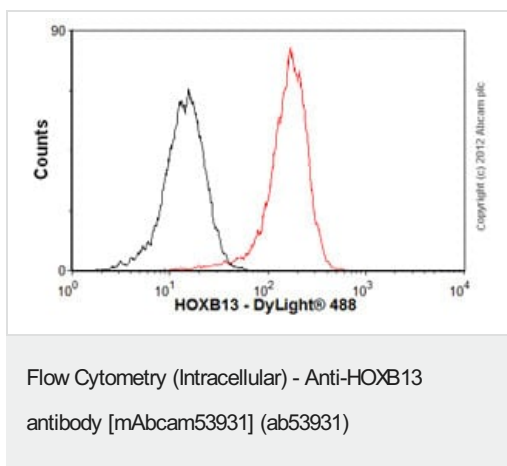
Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at
1/3000 dilution

Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 57 kDa

ab53931 recognizes the tagged HOXB13 recombinant protein
which has an expected molecular weight of 57 kDa.



Overlay histogram showing HeLa cells stained with ab53931 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab53931, 1 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG (1 µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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