

Product datasheet

Anti-RYBP antibody [EPR13059(2)] - ChIP Grade ab185971

Recombinant RabMAb

★★★★★ 1 Abreviews 6 References 14 Images

Overview

Product name	Anti-RYBP antibody [EPR13059(2)] - ChIP Grade
Description	Rabbit monoclonal [EPR13059(2)] to RYBP - ChIP Grade
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), ChIP, IP, ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	K562, SW480, HepG2 and rat PC12 cell lysates; Human placenta and Human clear carcinoma of kidney tissues; HepG2, SW480 and K562 cells IP: NIH/3T3 cell lysates Flow Cyt (intra): A431 cells
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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 long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR13059(2)
Isotype	IgG

Applications

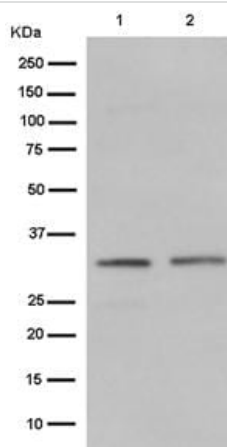
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab185971 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/20 - 1/40. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ChIP		Use at an assay dependent concentration.
IP		1/40 - 1/60.
ICC/IF	★★★★★ (1)	1/250.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/1000 - 1/10000. Detects a band of approximately 32 kDa (predicted molecular weight: 25 kDa).

Target

Function	May be implicated in the regulation of the transcription as a repressor of the transcriptional activity of E4TF1. In tumor cell lines, may induce apoptosis.
Tissue specificity	Widely expressed with highest levels in lymphoid tissues and placenta.
Sequence similarities	Contains 1 RanBP2-type zinc finger.
Cellular localization	Nucleus. Cytoplasm. Primarily found in the nucleus.

Images



Western blot - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

All lanes : Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971) at 1/1000 dilution

Lane 1 : K562 cell lysate

Lane 2 : SW480 cell lysate

Lysates/proteins at 20 µg per lane.

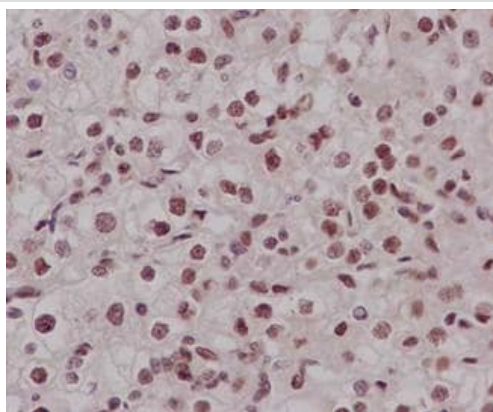
Secondary

All lanes : goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 25 kDa

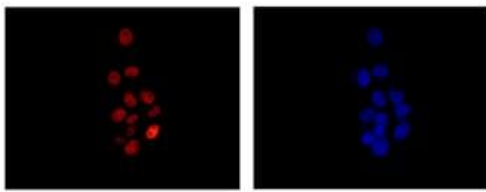
Observed band size: 32 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

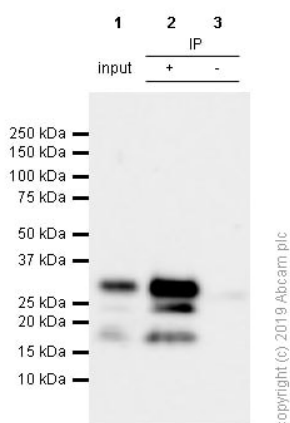
Immunohistochemical analysis of paraffin-embedded, Human clear cell carcinoma kidney tissue labeling RYBP with ab185971 at a 1/100 dilution. Counter stained with hematoxylin.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

Immunofluorescence analysis of, paraformaldehyde-fixed, HepG2 cells labeling RYBP with ab185971 at a 1/250 dilution. As secondary antibody goat anti-rabbit IgG (Alexa Fluor®555) was used at a 1/200. In blue DAPI staining.



Immunoprecipitation - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

ab185971 (purified) at 1/20 dilution (11.7µg/mL)
immunoprecipitating RYBP in NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate 10 µg.

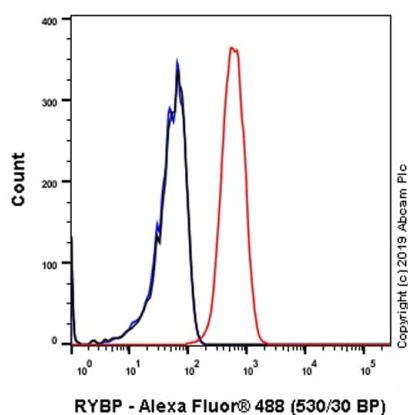
Lane 1 (input): NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate 10 µg

Lane 2 (+): ab185971 & NIH/3T3 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab185971 in NIH/3T3 whole cell lysate

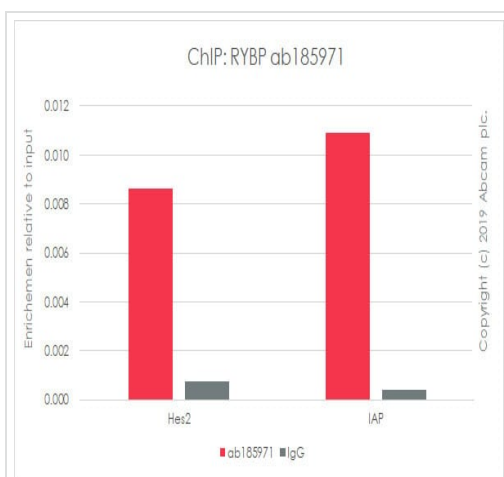
For western blotting, ab185971 at 1/500 dilution (0.468 µg/mL) and veriBlot for IP secondary antibody (HRP) (**ab131366**) at 1/1000 dilution was used.

Blocking and diluting buffer: 5% NFDM /TBST.



Flow Cytometry (Intracellular) - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

Intracellular Flow Cytometry analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labeling RYBP with purified ab185971 at 1/20 dilution (11.7µg/mL) (Red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (**ab172730**) (black). Unlabeled control - Unlabelled cells (blue).



ChIP - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

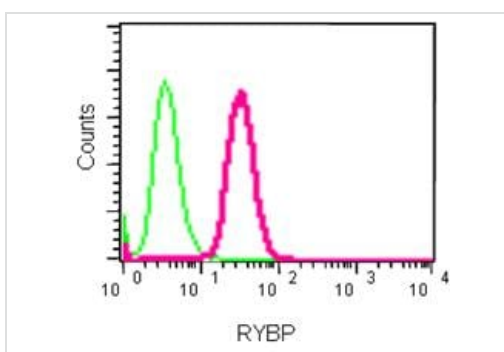
Chromatin was prepared from NIH/3T3 cells according to the Abcam Dual X-ChIP protocol*. Cells were fixed with EGS for 30 minutes, then formaldehyde for 10 minutes.

The ChIP was performed with 25 µg of chromatin, 5 µg of ab185971 (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

Primers and probes are located in the first kb of the transcribed region.

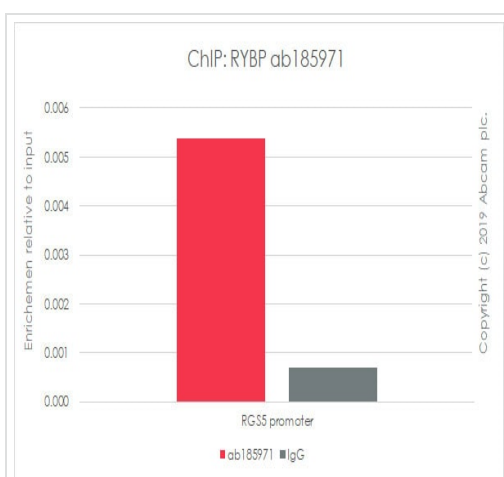
*[http://www.abcam.com/resources?](http://www.abcam.com/resources?keywords=X%20ChIP%20protocol)

keywords=X%20ChIP%20protocol



Flow Cytometry (Intracellular) - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

Intracellular Flow Cytometry analysis of paraformaldehyde-fixed K562 cells labeling RYBP with ab185971 at a 1/40 dilution and secondary antibody goat anti-rabbit IgG (FITC, red) at a 1/150 dilution, or negative control rabbit IgG (green).



ChIP - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

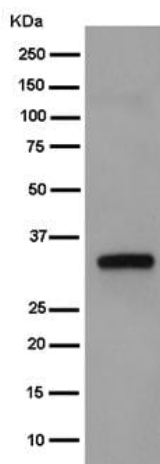
Chromatin was prepared from HEK293 cells according to the Abcam Dual X-ChIP protocol*. Cells were fixed with EGS for 30 minutes, then formaldehyde for 10 minutes.

The ChIP was performed with 25 µg of chromatin, 5 µg of ab185971 (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

Primers and probes are located in the first kb of the transcribed region.

*[http://www.abcam.com/resources?](http://www.abcam.com/resources?keywords=X%20ChIP%20protocol)

keywords=X%20ChIP%20protocol



Western blot - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971) at 1/10000 dilution + HepG2 cell lysate at 20 µg

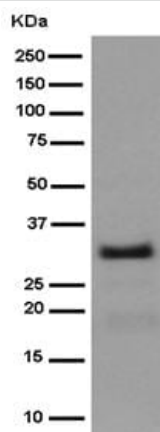
Secondary

goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 25 kDa

Observed band size: 32 kDa



Western blot - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971) at 1/1000 dilution + rat PC12 cell lysate at 10 µg

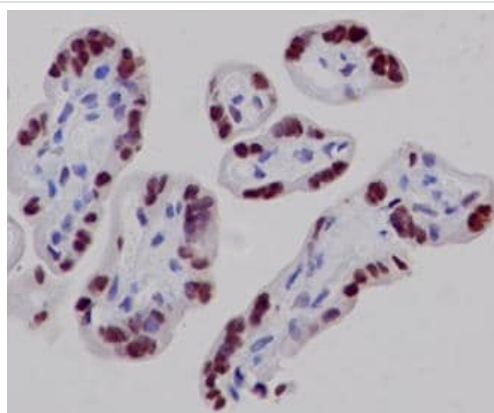
Secondary

goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 25 kDa

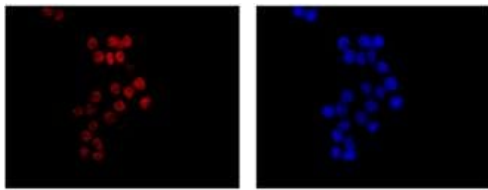
Observed band size: 32 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

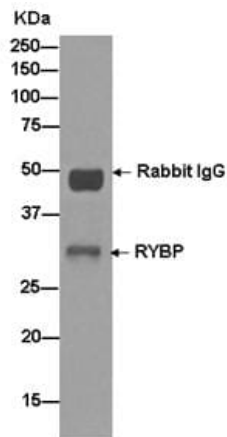
Immunohistochemical analysis of paraffin-embedded, Human placenta tissue labeling RYBP with ab185971 at a 1/100 dilution. Counter stained with hematoxylin.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

Immunofluorescence analysis of, paraformaldehyde-fixed, SW480 cells labeling RYBP with ab185971 at a 1/250 dilution. As secondary antibody goat anti-rabbit IgG (Alexa Fluor®555) was used at a 1/200. In blue DAPI staining.



Immunoprecipitation - Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

Western blot analysis on immunoprecipitation pellet from HepG2 cell lysate labeling RYBP with ab185971 at 1/50 dilution and goat anti-rabbit IgG, (H+L), peroxidase conjugated at a 1/1000 dilution.

Why choose a recombinant antibody?



Anti-RYBP antibody [EPR13059(2)] - ChIP Grade (ab185971)

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