abcam

Product datasheet

Anti-Inhibin beta B antibody ab69286

2 References 5 Images

Overview

Product name Anti-Inhibin beta B antibody

Description Rabbit polyclonal to Inhibin beta B

Host species Rabbit

Specificity From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and

expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch,

please contact our Scientific Support who will be happy to help.

Tested applications Suitable for: IHC-P, ICC/IF, WB

Species reactivity Reacts with: Human, Zebrafish

Predicted to work with: Sheep, Chicken, Cow, Cat, Pig, Monkey

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control This antibody gave a postive signal in the following tissue lysates: Human testis; Human pituitary

gland; Human adipose tissue. It also gave a positive signal in human testis tissue sections. This

antibody gave a positive result in IF in the following formaldehyde fixed cell lines: DU145.

General notesThe 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.

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

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: 7.40

Preservative: 0.02% Sodium azide

Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our

scientific support team who will be happy to help.

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab69286 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	
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.	
ICC/IF		Use a concentration of 5 µg/ml.	
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 52 kDa (predicted molecular weight: 45 kDa).	

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Function

Inhibins and activins inhibit and activate, respectively, the secretion of follitropin by the pituitary gland. Inhibins/activins are involved in regulating a number of diverse functions such as hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell survival, embryonic axial development or bone growth, depending on their subunit composition. Inhibins appear to oppose the functions of activins.

Sequence similarities

Belongs to the TGF-beta family.

Cellular localization

Secreted.

Images



Western blot - Anti-Inhibin beta B antibody (ab69286)

All lanes: Anti-Inhibin beta B antibody (ab69286) at 1 µg/ml

Lane 1: Human testis tissue lysate - total protein (ab30257)

Lane 2 : Brain: pituitary gland (Human) Whole Cell Lysate - adult

normal tissue (ab29749)

Lane 3: Human adipose normal tissue lysate - total protein

(ab28980)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit lgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

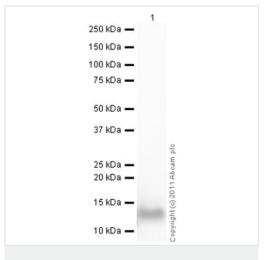
Predicted band size: 45 kDa **Observed band size:** 52 kDa

Additional bands at: 200 kDa, 22 kDa. We are unsure as to the

identity of these extra bands.

Exposure time: 5 minutes

Human Inhibin beta B chain precursor contains a potential glycosylation site (SwissProt) which may explain its migration at a higher molecular weight than predicted.



Western blot - Anti-Inhibin beta B antibody (ab69286)

Anti-Inhibin beta B antibody (ab69286) at 1 μ g/ml + Recombinant human Activin B protein (ab50052) at 0.001 μ g

Secondary

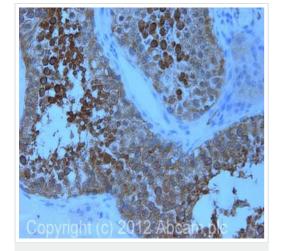
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 45 kDa

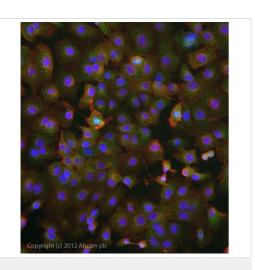
Exposure time: 20 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Inhibin beta B antibody (ab69286)

IHC image of ab69286 staining in human testis formalin fixed paraffin embedded tissue section, performed on a Leica Bond TM 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 ab69286, 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-Inhibin beta B antibody (ab69286)

ICC/IF image of ab69286 stained DU145 cells. The cells were 4% formaldehyde fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab69286 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) lgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - Anti-Inhibin beta B antibody (ab69286)

All lanes : Anti-Inhibin beta B antibody (ab69286) at 2 $\mu g/ml$

Lane 1: Marker

Lane 2 : Zebrafish brain homogenate at 20 μ g **Lane 3 :** Zebrafish heart homogenate at 20 μ g

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 45 kDa **Observed band size:** 52 kDa

Exposure time: 3 minutes

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