

Product datasheet

Anti-Interferon beta antibody (Biotin) ab84258

2 References 3 Images

Overview

Product name	Anti-Interferon beta antibody (Biotin)
Description	Rabbit polyclonal to Interferon beta (Biotin)
Host species	Rabbit
Conjugation	Biotin
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Highly pure (>98%) recombinant human Interferon beta
Positive control	This antibody gave a positive signal in human liver, spleen and kidney tissue lysates.

Properties

Form	Lyophilised:Centrifuge vial prior to opening. Reconstitute in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: None Constituents: PBS, pH 7.2
Purity	Protein A purified
Purification notes	ab84258 is sterile filtered.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab84258** in the following tested applications.

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

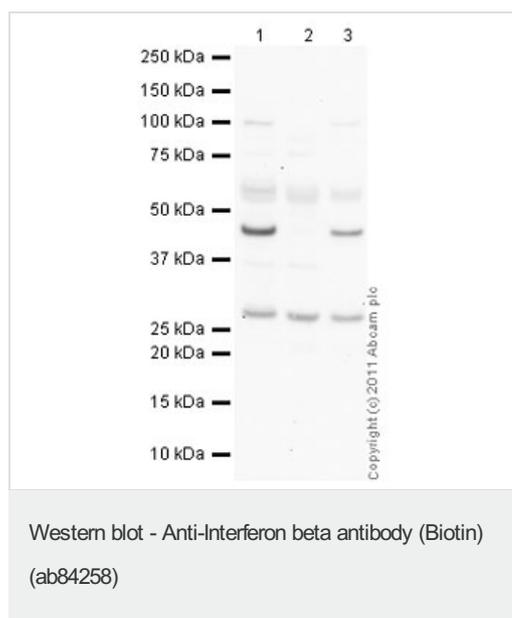
Application	Abreviews	Notes
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Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 27 kDa (predicted molecular weight: 22 kDa).
IHC-P		Use a concentration of 0.75 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 5 µg/ml.

Target

Function	Has antiviral, antibacterial and anticancer activities.
Sequence similarities	Belongs to the alpha/beta interferon family.
Cellular localization	Secreted.

Images



All lanes : Anti-Interferon beta antibody (Biotin) (ab84258) at 1 µg/ml

Lane 1 : Human liver tissue lysate - total protein (ab29889)

Lane 2 : Human spleen tissue lysate - total protein (ab29699)

Lane 3 : Human kidney tissue lysate - total protein (ab30203)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : 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: 22 kDa

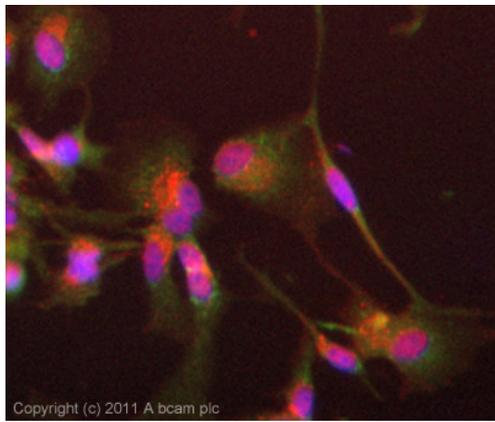
Observed band size: 27 kDa

[why is the actual band size different from the predicted?](#)

Additional bands at: 100 kDa, 46 kDa, 55 kDa. We are unsure as to the identity of these extra bands.

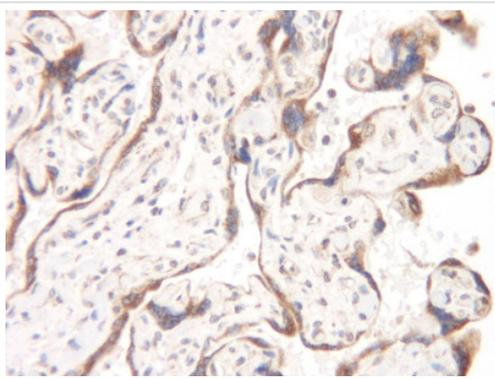
Exposure time: 16 minutes

The Interferon Beta protein sequence contains both a phosphorylation and a glycosylation site (Swissprot). Post-translation modifications could account for the migration of the band at a higher molecular weight than predicted.



Immunocytochemistry/ Immunofluorescence - Anti-Interferon beta antibody (Biotin) (ab84258)

ICC/IF image of ab84258 stained HepG2 cells. The cells were 4% formaldehyde (10 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 (ab84258, 5µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96899](#) Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Interferon beta antibody (Biotin) (ab84258)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human normal placenta, staining Interferon beta with ab84258 at 0.75 µg/ml. An HRP-labeled polymer detection system was used with a DAB chromogen. Heat induced antigen retrieval with a pH 6.0 sodium citrate buffer is recommended.

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