Product datasheet

Anti-Interferon beta antibody ab85803

Product name: Anti-Interferon beta antibody
Description: Rabbit polyclonal to Interferon beta
Host species: Rabbit
Tested applications: Suitable for: WB, ICC/IF
Species reactivity: Reacts with: Mouse, Human
Predicted to work with: Macaque monkey
Immunogen: Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Interferon beta.
Positive control: Recombinant human Interferon beta protein (ab71475) can be used as a positive control in WB.

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: Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications
Our Abpromise guarantee covers the use of ab85803 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
</table>

1 Abreviews 1 References 2 Images
**Function**
Has antiviral, antibacterial and anticancer activities.

**Sequence similarities**
Belongs to the alpha/beta interferon family.

**Cellular localization**
Secreted.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 30 kDa (predicted molecular weight: 22 kDa).</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 1 µg/ml.</td>
</tr>
</tbody>
</table>

**Target**

**Function**
Has antiviral, antibacterial and anticancer activities.

**Sequence similarities**
Belongs to the alpha/beta interferon family.

**Cellular localization**
Secreted.

**Images**

**Western blot**

- **All lanes**: Anti-Interferon beta antibody (ab85803) at 1 µg/ml
- **Lane 1**: HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
- **Lane 2**: WI-38 whole cell lysate (ab3960)
- **Lane 3**: Human liver tissue lysate - total protein (ab29889)
- **Lane 4**: Lung (Human) Tissue Lysate
- **Lane 5**: Human kidney tissue lysate - total protein (ab30203)
- **Lane 6**: Human spleen tissue lysate - total protein (ab29699)

Lysates/proteins at 10 µg per lane.

**Secondary**

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

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size**: 22 kDa

**Observed band size**: 30 kDa

**why is the actual band size different from the predicted?**

**Additional bands at**: 110 kDa, 120 kDa, 160 kDa, 37 kDa. We are unsure as to the identity of these extra bands.

**Exposure time**: 20 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.

ICC/IF image of ab85803 stained HepG2 cells. The cells were 4% PFA fixed (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 (ab85803, 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.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors