

## Product datasheet

# Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] ab124764

KO VALIDATED Recombinant RabMAb

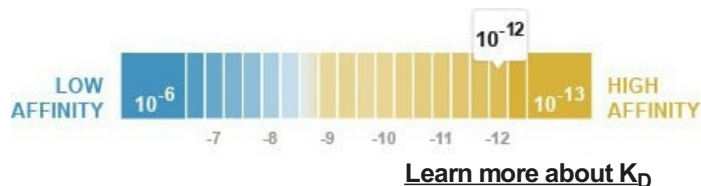
★★★★★ [2 Abreviews](#) [12 References](#) [8 Images](#)

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-Interferon alpha/beta receptor 1 antibody [EPR6244]  |
| <b>Description</b>         | Rabbit monoclonal [EPR6244] to Interferon alpha/beta receptor 1   |
| <b>Host species</b>        | Rabbit  |
| <b>Specificity</b>         | In mouse and rat tissue lysates this product detects a band in the region of 100 kDa, however we believe this band is non-specific and is not interferon receptor alpha as the immunogen for this antibody shares only 55% homology with the mouse and rat protein. In addition this band also migrates at a lower molecular weight than that detected in human samples.  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB<br><b>Unsuitable for:</b> ICC/IF or IHC-P   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Synthetic peptide within Human Interferon alpha/beta receptor 1 aa 100-200. The exact sequence is proprietary.<br>Database link: <a href="#">P17181</a>   |
| <b>Positive control</b>    | HeLa, HeLa treated with IFN-alpha, K562 and U937 cell lysates.  |
| <b>General notes</b>       | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> .<br>Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> . |

### Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. |

**Dissociation constant (K<sub>D</sub>)**K<sub>D</sub> = 2.40 x 10<sup>-12</sup> M**Storage buffer**

pH: 7.20  
 Preservative: 0.01% Sodium azide  
 Constituents: 50% Glycerol (glycerin, glycerine), 0.05% BSA, 49% PBS

**Purity**

Protein A purified

**Clonality**

Monoclonal

**Clone number**

EPR6244

**Isotype**

IgG

**Applications****The Abpromise guarantee**Our **Abpromise guarantee** covers the use of ab124764 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  |
|-------------|-----------|--|
| WB          | ★★★★★ (1) | 1/1000 - 1/10000. Detects a band of approximately 90-130 kDa (predicted molecular weight: 64 kDa). |

**Application notes**

Is unsuitable for ICC/IF or IHC-P.

**Target****Function**

Associates with IFNAR2 to form the type I interferon receptor. Receptor for interferons alpha and beta. Binding to type I IFNs triggers tyrosine phosphorylation of a number of proteins including JAKs, TYK2, STAT proteins and IFNR alpha- and beta-subunits themselves.

**Tissue specificity**

IFN receptors are present in all tissues and even on the surface of most IFN-resistant cells. Isoform 1, isoform 2 and isoform 3 are expressed in the IFN-alpha sensitive myeloma cell line U266S. Isoform 2 and isoform 3 are expressed in the IFN-alpha resistant myeloma cell line U266R. Isoform 1 is not expressed in IFN-alpha resistant myeloma cell line U266R.

**Sequence similarities**

Belongs to the type II cytokine receptor family.  
 Contains 3 fibronectin type-III domains.

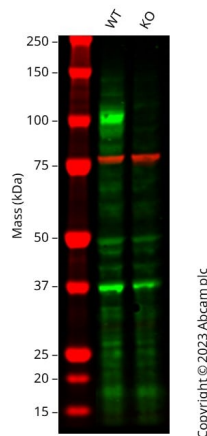
**Post-translational modifications**

Phosphorylated on tyrosine residues by TYK2 tyrosine kinase.

**Cellular localization**

Membrane.

**Images**



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Western blot - Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764)

**All lanes** : Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764) at 1/1000 dilution

**Lane 1** : Wild-type HeLa cell lysate

**Lane 2** : IFNAR1 knockout HeLa cell lysate

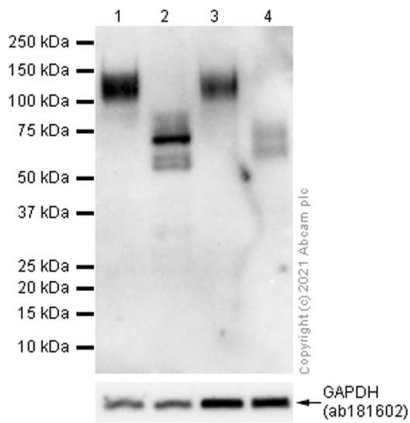
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 64 kDa

**Observed band size:** 116 kDa

Western blot: Anti-IFNAR1 antibody [EPR6244] (ab124764) staining at 1/1000 dilution, shown in green; Mouse anti-CANX [CANX/1543] (**ab238078**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab124764 was shown to bind specifically to IFNAR1. A band was observed at 116 kDa in wild-type HeLa cell lysates with no signal observed at this size in IFNAR1 knockout cell line. To generate this image, wild-type and IFNAR1 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764)

**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764) at 1/1000 dilution

**Lane 1 :** Untreated K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate. with NFDN/TBST

**Lane 2 :** K-562 (Human chronic myelogenous leukemia lymphoblast) treated with PNGase F whole cell lysate. with NFDN/TBST

**Lane 3 :** Untreated HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate. with NFDN/TBST

**Lane 4 :** HeLa (Human cervix adenocarcinoma epithelial cell) treated with PNGase F whole cell lysate 15 µg. with NFDN/TBST

Lysates/proteins at 15 µg per lane.

Blocking peptides at 5 % per lane.

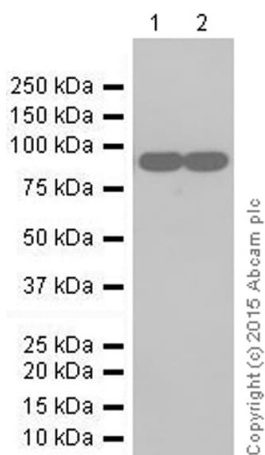
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated.)

**Predicted band size:** 64 kDa

**Observed band size:** 64.13 kDa

**Exposure time:** 180 seconds



Western blot - Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764)

**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764) at 1/1000 dilution (purified)

**Lane 1 :** Mouse brain tissue lysate

**Lane 2 :** Rat brain tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Rabbit monoclonal [EPR6244] to Interferon alpha/beta receptor 1 (ab124764) at 1/1000 dilution

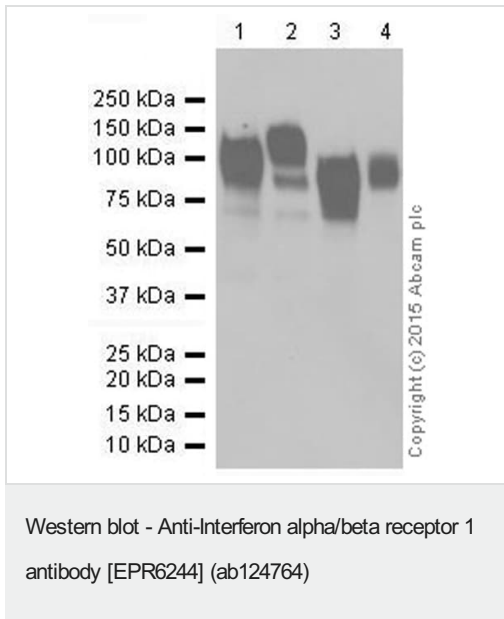
**Predicted band size:** 64 kDa

**Observed band size:** 90 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST

In mouse and rat tissue lysates this product detects a band in the region of 100 kDa, however we believe this band is non-specific and is not interferon receptor alpha as the immunogen for this antibody shares only 55% homology with the mouse and rat protein. In addition this band also migrates at a lower molecular weight than that detected in human samples.



**All lanes** : Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764) at 1/1000 dilution (purified)

**Lane 1** : HEK-293 whole cell lysate

**Lane 2** : HeLa whole cell lysate

**Lane 3** : LNCaP whole cell lysate

**Lane 4** : SH-SY5Y whole cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

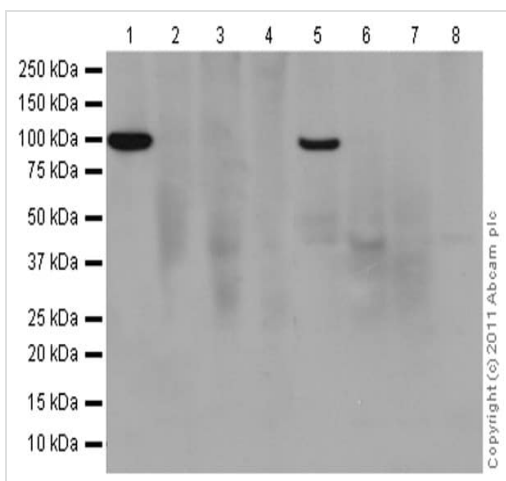
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 64 kDa

**Observed band size:** 90-130 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764)

**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764) at 1/1000 dilution (unpurified)

**Lane 1 :** Mouse brain whole tissue lysate

**Lane 2 :** Mouse heart whole tissue lysate

**Lane 3 :** Mouse kidney whole tissue lysate

**Lane 4 :** Mouse spleen whole tissue lysate

**Lane 5 :** Rat brain whole tissue lysate

**Lane 6 :** Rat heart whole cell lysate

**Lane 7 :** Rat kidney whole cell lysate

**Lane 8 :** Rat spleen whole tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

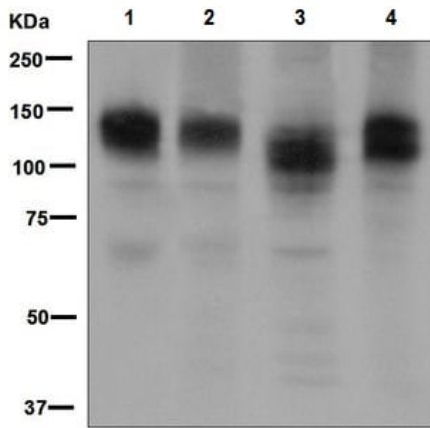
**All lanes :** Goat anti-rabbit IgG (H+L), peroxidase conjugated at 1/2000 dilution

**Predicted band size:** 64 kDa

**Exposure time:** 3 minutes

Blocking buffer: 5% NFDm/TBST.

In mouse and rat tissue lysates this product detects a band in the region of 100 kDa, however we believe this band is non-specific and is not interferon receptor alpha as the immunogen for this antibody shares only 55% homology with the mouse and rat protein. In addition this band also migrates at a lower molecular weight than that detected in human samples.



Western blot - Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764)

**All lanes :** Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764) at 1/1000 dilution (Unpurified)

**Lane 1 :** HeLa cell lysate

**Lane 2 :** HeLa cell lysate treated with IFN-alpha

**Lane 3 :** K562 cell lysate

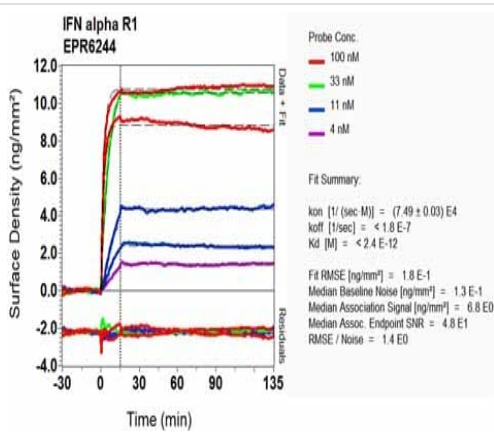
**Lane 4 :** U937 cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat anti-Rabbit HRP at 1/200 dilution

**Predicted band size:** 64 kDa



OI-RD Scanning - Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?

|   |   |
|---|---|
| <br><b>Research with confidence</b><br>Consistent and reproducible results | <br><b>Long-term and scalable supply</b><br>Recombinant technology |
| <br><b>Success from the first experiment</b><br>Confirmed specificity      | <br><b>Ethical standards compliant</b><br>Animal-free production   |

Anti-Interferon alpha/beta receptor 1 antibody [EPR6244] (ab124764)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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