

Product datasheet

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

KO VALIDATED Recombinant RabMAb

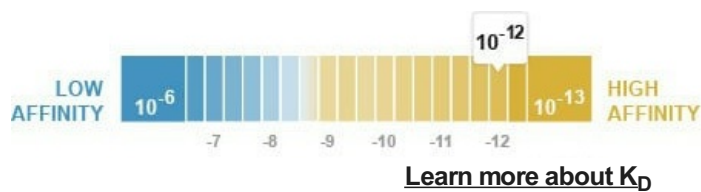
★★★★★ [2 Abreviews](#) [12 References](#) [8 Images](#)

Overview

Product name	Anti-Interferon alpha/beta receptor 1 antibody [EPR6244]
Description	Rabbit monoclonal [EPR6244] to Interferon alpha/beta receptor 1
Host species	Rabbit
Specificity	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.
Tested applications	Suitable for: WB Unsuitable for: ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Interferon alpha/beta receptor 1 aa 100-200. The exact sequence is proprietary. Database link: P17181
Positive control	HeLa, HeLa treated with IFN-alpha, K562 and U937 cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

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. Stable for 12 months at -20°C.

Dissociation constant (K_D)K_D = 2.40 x 10⁻¹² 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.

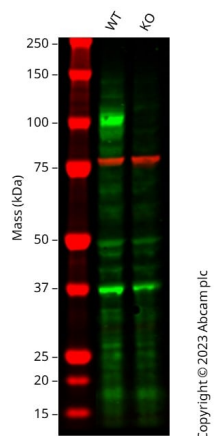
Post-translational modifications

Phosphorylated on tyrosine residues by TYK2 tyrosine kinase.

Cellular localization

Membrane.

Images



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

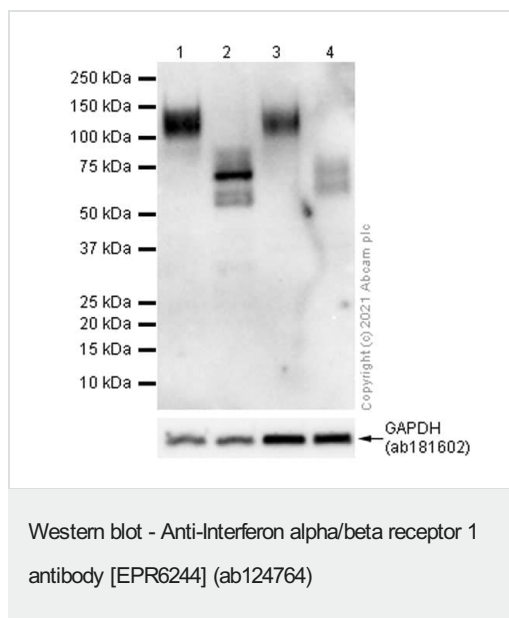
Lysates/proteins at 20 µg per lane.

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[®] 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.



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 NFDm/TBST

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

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

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

Lysates/proteins at 15 µg per lane.

Blocking peptides at 5 % per lane.

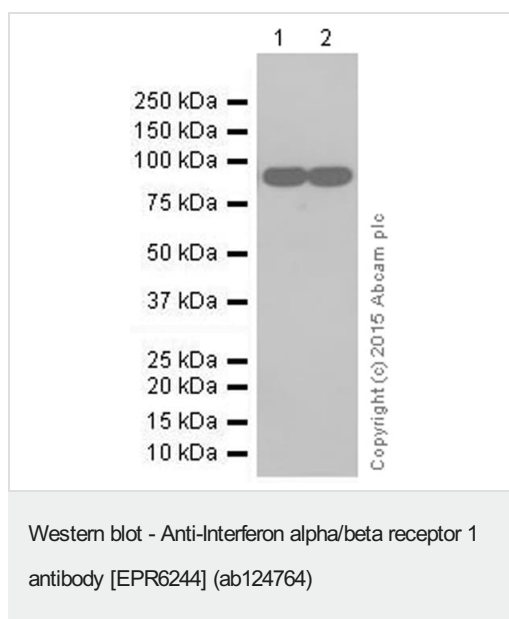
Secondary

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



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

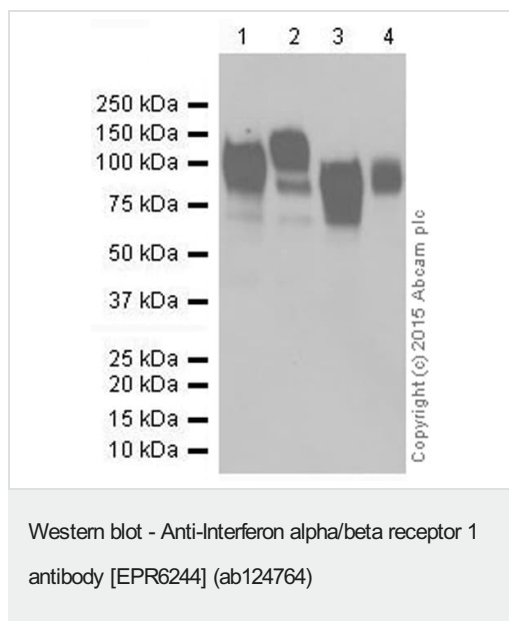
Predicted band size: 64 kDa

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

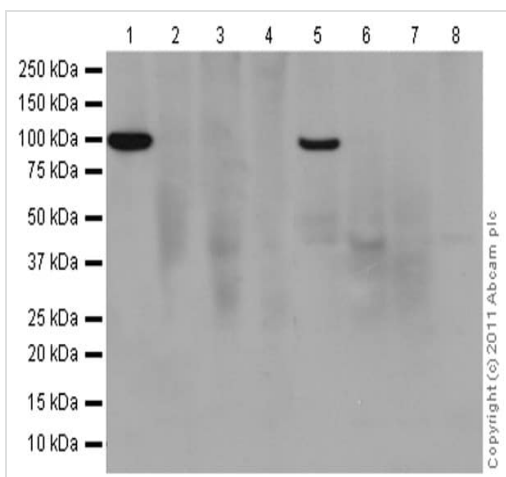
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

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

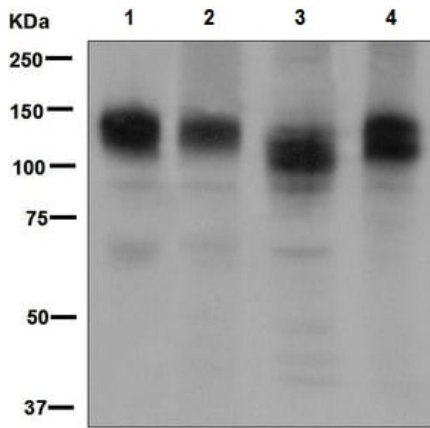
All lanes : Goat anti-rabbit IgG (H+L), peroxidase conjugated at 1/2000 dilution

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

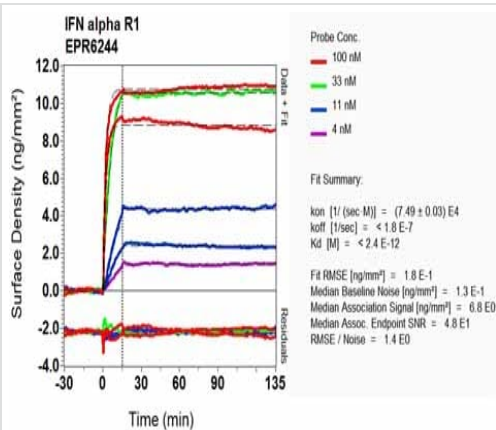
Lane 4 : U937 cell lysate

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?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
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Success from the first experiment
Confirmed specificity



Ethical standards compliant
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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