

Product datasheet

Anti-Interferon alpha/beta receptor 1 antibody ab10739

2 References

概述

产品名称	Anti-Interferon alpha/beta receptor 1 抗体
描述	山羊多克隆抗体 to Interferon alpha/beta receptor 1
宿主	Goat
特异性	Based on ELISA and immunoblotting, this antibody shows no cross-reactivity with recombinant human IFNGRI and IFNGRII.
经测试应用	适用于: Flow Cyt, ELISA, Neutralising, WB
种属反应性	与反应: Human
免疫原	Recombinant full length protein corresponding to Human Interferon alpha/beta receptor 1. Database link: P17181
常规说明	Endotoxin level is < 10 ng/mg antibody as determined by the LAL (Limulus amoebocyte lysate) method. This antibody was used as a detection antibody in sELISA and was paired with ab91466 as capture antibody. Abreview 24657.

IFNAR1 is a member of the cytokine receptor superfamily which also includes receptors for interleukins, IFN gamma, ciliary neurotrophic factor, somatotrophin, erythropoietin, nerve growth factor, tumor necrosis factor, leukemia inhibitory factor, and oncostatin M. Some members of the family have an alpha chain with either low or high ligand binding affinity and at least one beta chain involved in signal transduction with either relatively low or no ligand binding affinity. Type I interferons, alpha and beta, induce a variety of effects on target cells including antiviral, antiproliferative, and immunomodulatory activities. The alpha and beta interferons compete to bind to a common cell surface receptor, while IFN gamma binds to a distinct receptor. IFNAR1 is very responsive to type I interferons and bind to IFN beta and IFN alpha subtypes. It is also functionally involved in signal transduction because of its association with the cytoplasmic tyrosine kinase JAK1. The type I interferons, alpha and beta, are produced by leukocytes (alpha subunits), fibroblasts (beta subtypes), lymphocytes (omega subtypes), and ruminant embryos (tau subtypes). Interferon receptors are generally found on most human cell types whatever their origin, even on cells poorly responsive to interferon. IFNAR1 is expressed on the cell surface in a variety of human cell lines.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles.

存储溶液

Constituent: PBS

纯度

Immunogen affinity purified

纯化说明

Affinity isolated antigen specific antibody is obtained from goat anti-Interferon alpha/beta receptor 1 antiserum by immuno-specific purification which removes essentially all goat serum proteins, including immunoglobulins, which do not specifically bind to the peptide.

Primary antibody说明

IFNAR1 is a member of the cytokine receptor superfamily which also includes receptors for interleukins, IFN gamma, ciliary neurotrophic factor, somatotrophin, erythropoietin, nerve growth factor, tumor necrosis factor, leukemia inhibitory factor, and oncostatin M. Some members of the family have an alpha chain with either low or high ligand binding affinity and at least one beta chain involved in signal transduction with either relatively low or no ligand binding affinity. Type I interferons, alpha and beta, induce a variety of effects on target cells including antiviral, antiproliferative, and immunomodulatory activities. The alpha and beta interferons compete to bind to a common cell surface receptor, while IFN gamma binds to a distinct receptor. IFNAR1 is very responsive to type I interferons and bind to IFN beta and IFN alpha subtypes. It is also functionally involved in signal transduction because of its association with the cytoplasmic tyrosine kinase JAK1. The type I interferons, alpha and beta, are produced by leukocytes (alpha subunits), fibroblasts (beta subtypes), lymphocytes (omega subtypes), and ruminant embryos (tau subtypes). Interferon receptors are generally found on most human cell types whatever their origin, even on cells poorly responsive to interferon. IFNAR1 is expressed on the cell surface in a variety of human cell lines.

克隆

多克隆

同种型

IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab10739** in the following tested applications.

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

应用	Ab 评论	说明
Flow Cyt		Use 3-10µl for 10 ⁶ cells.
ELISA		Use a concentration of 0.5 - 1 µg/ml. The detection limit for recombinant human IFNAR1 is approximately 0.3 ng/well.
Neutralising		Use a concentration of 15 - 30 µg/ml. This will block 50 % of the binding of recombinant human IFN beta (20 ng/ml) to immobilized recombinant human IFNAR1 (1 µg/ml of a 100 µl solution coated in each well) in a functional ELISA.
WB		Use a concentration of 0.1 - 0.2 µg/ml. Predicted molecular weight: 135 kDa. The detection limit for recombinant human IFN-µ/β R1 is ~25 ng/lane and 5 ng/lane under non-reducing and reducing conditions, respectively.

靶标

功能

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.

组织特异性

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.

序列相似性

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

翻译后修饰

Phosphorylated on tyrosine residues by TYK2 tyrosine kinase.

细胞定位

Membrane.

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