Technical Data Sheet

Purified NA/LE Mouse anti-Mouse IFN-α/β Receptor 1

Product Information

Material Number: 561183
Alternate Name: Interferon-alpha/beta Receptor 1; IFN-R-1; Ifar; Ifnar; Ifrc; Infar
Size: 0.5 mg
Concentration: 1.0 mg/ml
Clone: MAR1-5A3
Immunogen: Mouse Ifnar1 extracellular domain DNA
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Mouse
Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

Description

The MAR1-5A3 monoclonal antibody specifically binds to the IFN-α/β Receptor 1 (also known as Interferon-alpha/beta Receptor 1; Type I Interferon Receptor 1 or IFNAR-1) subunit. A variety of cell types including lymphocytes, monocytes/macrophages, dendritic cells, and fibroblasts can be stimulated or induced by viral and microbial infections to produce and secrete type I interferons, including Interferon-alpha (IFN-α) subtypes and IFN-β subtypes. IFN-α subtypes and IFN-β bind to a common heterodimeric receptor complex (also known as the Type I IFN Receptor or IFN-α/β Receptor) that is comprised of transmembrane glycoprotein IFNAR-1 and IFNAR-2 subunits and is expressed on most cell types. Upon ligand binding, IFNAR-1 and IFNAR-2 signal cellular responses. Type I interferons are multifunctional proteins that can induce antiviral states in cells as well as regulate the activation, growth, proliferation, differentiation and viability of various cell types including cells that mediate innate and adaptive immunity as well as autoimmune diseases. The MAR1-5A3 monoclonal antibody blocks Type I interferon signaling and in vitro and in vivo biologic responses caused by type I interferons. The MAR1-5A3 antibody has also been reported to be useful for immunofluorescent staining and flow cytometric analysis, immunoprecipitation and Western blot analysis of IFNAR-1.

Preparation and Storage

Store undiluted at 4°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

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<tbody>
<tr>
<td>Flow cytometry</td>
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<td>Blocking</td>
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Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
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<th>Size</th>
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<tbody>
<tr>
<td>553447</td>
<td>Purified NA/LE Mouse IgG1 κ Isotype Control</td>
<td>0.5 mg</td>
<td>107.3</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

References