Technical Data Sheet

Purified NA/LE Mouse Anti-Human IFN-α[2b]

Product Information

Material Number: 551795
Alternate Name: IFNa, IFNα
Size: 0.5 mg
Concentration: 1.0 mg/ml
Clone: 7N4-1
Immunogen: Human IFN-α2b
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
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 7N4-1 antibody reacts with human IFN-α2b and to a lesser extent with IFN-α7. It does not react with IFN-α1 nor IFN-α4. IFN-α2b is one of the three variants of IFN-α2 that have been isolated from human cell lines. IFN-α2b is the variant predominantly produced by human leukocytes. Human IFN-α2b belongs to the IFN-α class of proteins also known as leukocyte interferons. IFN-α comprises a family of related but distinct proteins with molecular weights ranging from 16-27 kDa with antiviral, antiproliferative and immunomodulatory activities. The IFN-α family is composed from as many as 14 different genes. The immunogen used to generate the 7N4-1 hybridoma was E. coli-expressed recombinant human IFN-α2b. This is a neutralizing antibody.

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

Intracellular staining (flow cytometry) Routinely Tested
Neutralization Tested During Development
Immunocytochemistry (cytospins) Reported

Neutralization Activity:

This antibody has been reported to be useful for the neutralization of recombinant human IFN-α. Neutralization activity may be measured using MTT dye conversion in a IFN-α mediated EMC viral resistance assay using A549 as indicator cells.
50% Neutralization (ND50) at 0.3 - 3 µg/mL
≥ 95% Neutralization at 10 - 50 µg/mL

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>554721</td>
<td>Purified NA/LE Mouse IgG1 x Isotype Control</td>
<td>0.5 mg</td>
<td>107.3</td>
</tr>
</tbody>
</table>

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to wwwbdbiosciencescom/pharmingen/protocols for technical protocols.

References


BD Biosciences

bdbiosciences.com
877.232.8995
080.979.9409
32.537.20050
0120.85550
65.8661.0633
55.11.5185.9995

For contact information, visit bdbiosciencescom/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or for violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.
For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.
Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company © 2011 BD