

Technical Data Sheet

Biotin Hamster Anti-Mouse IL-9

Product Information

Material Number:	554473
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	D9302C12
Immunogen:	Recombinant Mouse IL-9
Isotype:	Armenian Hamster IgG2, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The D9302C12 antibody reacts with mouse IL-9. The immunogen used to generate the D9302C12 hybridoma was recombinant mouse IL-9. The D9302C12 antibody is able to neutralize mouse IL-9 bioactivity.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

ELISA Detection	Routinely Tested
-----------------	------------------

Recommended Assay Procedure:

ELISA Detection: Biotinylated D9302C12 antibody (Cat. No. 554473) is useful as a detection antibody for a sandwich ELISA for measuring mouse IL-9 protein levels. Biotinylated D9302C12 antibody can be paired with the D8402E8 antibody (Cat. No. 551218) as the capture antibody, and with recombinant mouse IL-9 as the standard. Biotinylated D9302C12 antibody should be titrated (0.5 - 2.0 μ g/ml) to determine optimal concentration for ELISA detection. An appropriate range of concentrations of the mouse IL-9 standard for obtaining a linear standard curve is 4 ng/ml to 30 pg/ml. For maximal sensitivity, BD Biosciences recommends an overnight incubation (4°C) of samples/standards with the coated capture antibody. For specific methodology, please visit our website, www.bdbiosciences.com, and go to the protocols section or the chapter on ELISA in the Immune Function Handbook.

This ELISA pair shows no cross-reactivity with any of the cytokines tested (e.g., mouse IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-10, IL-12 p70, IL-15, GM-CSF, IFN- γ , MCP-1, TCA-3, TNF; human IL-1 α , IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, G-CSF, GM-CSF, IFN- γ , lymphotactin, MCP-1, MCP-2, MIP-1 α , MIP-1 β , NT-3, PDGF-AA, sCD23, SCF, TNF, LT- α , VEGF; rat IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN- γ , TNF).

Neutralization: The NA/LE format of this clone (Cat. No. 554472) is recommended for functional assays.

Suggested Companion Products

Catalog Number	Name	Size	Clone
551218	Purified Rat Anti-Mouse IL-9	1.0 mg	D8402E8
554472	Purified NA/LE™ Hamster Anti-Mouse IL-9	0.5 mg	D9302C12

Product Notices

- Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/pharmingen/hamster_chart_11x17.pdf.
- Since applications vary, each investigator should titrate the reagent to obtain optimal results.

BD Biosciences

www.bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit www.bdbiosciences.com/how_to_order/

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 other 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.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2007 BD



3. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Abrams J. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In: Coligan J, Kruisbeek A, Margulies D, Shevach E, Strober W, ed. *Current Protocols in Immunology*. New York: John Wiley and Sons; 1995:6.20-6.21.(Clone-specific: ELISA)

Renauld JC, Kermouni A, Vink A, Louahed J, Van Snick J. Interleukin-9 and its receptor: involvement in mast cell differentiation and T cell oncogenesis. *J Leukoc Biol*. 1995; 57(3):353-360.(Biology)