Technical Data Sheet

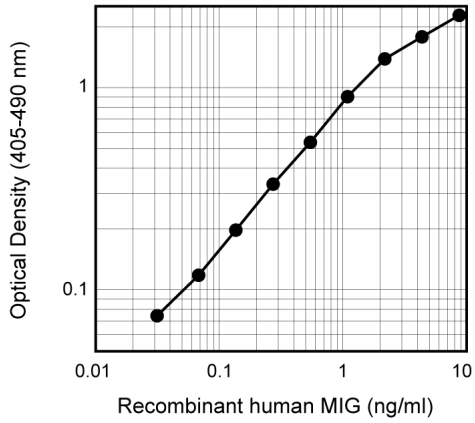
Purified Mouse Anti-Human MIG

Product Information

Material Number:	**555038**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	B8-11
Immunogen:	Recombinant Human MIG Protein
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The monoclonal antibody B8-11 reacts with human monokine induced by gamma interferon (MIG). MIG is inducible in macrophages, hepatocytes, and endothelial cells by IFN-γ, but not by IFN-α or bacterial lipopolysaccharides. The immunogen used to generate the monoclonal antibody B8-11 was insect cell-expressed, recombinant human MIG protein.



Human MIG Standard Curve

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

Application Notes

Application

ELISA Capture	Routinely Tested
Intracellular block/flow cytometry	Tested During Development
Intracellular staining (flow cytometry)	Tested During Development

Recommended Assay Procedure:

ELISA Capture: The purified monoclonal antibody B8-11 is useful as a capture antibody in a sandwich ELISA for measuring human MIG protein levels. Purified monoclonal antibody B8-11 can be paired with the biotinylated monoclonal antibody B8-6 (Cat. No. 555037) with recombinant human MIG (Cat. No. 554636) as the standard. Purified monoclonal antibody B8-11 should be titrated to determine optimal concentration for ELISA capture (0.5-4.0 µg/ml). To obtain linear standard curves, doubling dilutions of human MIG ranging from ~2,500 to 39 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

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This ELISA pair shows no cross-reactivity with any of the cytokines tested (human IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-13, IL- 15, IL-16, eotaxin, G-CSF, GM-CSF, GROα, GROβ, GROγ, IFN-γ, IP-10, lymphotactin, MCP-1, MCP-2, MCP-3, MCP-4, MIP-1α, MIP-1β, NAP-2, PF-4, RANTES, TNF, LT-α).

This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assay of serum samples. The BD OptEIA™ ELISA set (Cat. No. 550998) is specially-formulated for cytokine measurement in complex fluids such as serum and plasma.

Immunofluorescent Staining and Flow Cytometric Analysis: The B8-11antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify and enumerate MIG producing cells within mixed cell populations. The PE-conjugated B8-11 antibody is especially suitable for these studies.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555037	Biotin Mouse Anti-Human MIG	0.5 mg	B8-6
554636	Recombinant Human MIG	5 µg	(none)
550998	Human MIG OptEIA Set	20 tests	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. 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

Farber JM. A macrophage mRNA selectively induced by gamma-interferon encodes a member of the platelet factor 4 family of cytokines. *Proc Natl Acad Sci U S A.* 1990; 87(14):5238-5242.(Biology)

Farber JM. HuMig: a new human member of the chemokine family of cytokines. *Biochem Biophys Res Commun.* 1993; 192(1):223-230.(Biology)

Liao F, Rabin RL, Yannelli JR, Koniaris LG, Vanguri P, Farber JM. Human Mig chemokine: biochemical and functional characterization. *J Exp Med.* 1995; 182(5):1301-1314.(Biology)

Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *J Immunol Methods.* 1995; 188(1):117-128.(Clone-specific: Flow cytometry, IC/FCM Block, Immunofluorescence)