Technical Data Sheet

Biotin Mouse Anti-Human IP-10

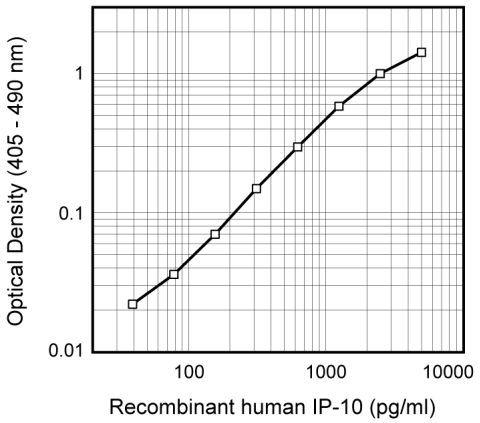
Product Information

Material Number:	**555048**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	6D4/D6/G2
Immunogen:	Recombinant human IP-10 protein
Isotype:	Mouse IgG2a, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The monoclonal antibody 6D4/D6/G2 reacts with human CXC chemokine, interferon gamma inducible protein 10 (IP-10). IP-10 is inducible in monocytes, keratinocytes and endothelial cells by IFN-γ. The immunogen used to generate the monoclonal antibody 6D4/D6/G2 was recombinant human IP-10 protein.

This antibody is routinely tested by ELISA detection. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Human IP-10 ELISA Standard Curve

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 Detector: The biotinylated monoclonal antibody 6D4/D6/G2 (Cat. No. 555048) is useful as a detection antibody in a sandwich ELISA for measuring human IP-10 protein levels. Biotinylated monoclonal antibody 6D4/D6/G2 can be paired with the purified monoclonal antibody 4D5 (Cat. No. 555046) as capture antibody, and with recombinant human IP-10 (Cat. No. 551130) as the standard. Biotinylated monoclonal antibody 6D4/D6/G2 should be titrated to determine its optimal concentration for ELISA detector (0.5 - 2.0 µg/ml). To obtain linear standard curves, doubling dilutions of human IP-10 ranging from ~2,500 to 39 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit our web site, www.bdbiosciences.com, and go to the protocols section or the chapter on ELISA in the Immune Function Handbook.

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Note 1: This ELISA pair shows no cross-reactivity with any of the cytokines or chemokines 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, lymphotactin, MIG, MCP-1, MCP-2, MCP-3, MCP-4, MIP-1α, MIP-1β, NAP-2, PF-4, RANTES, TGF-β, TNF, LT-α and mouse Crg-2).

Note 2: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assay of serum or plasma samples. For measuring human IL-10 in serum or plasma our Human IL-10 BD OptEIA™ ELISA Set (Cat. No. 550926) is specially formulated and recommended.

Immunofluorescent Staining and Flow Cytometric Analysis: The 6D4/D6/G2 antibody is useful for immunofluorescent staining and flow cytometric analysis to identify and enumerate human IP-10 producing cells within mixed cell populations. The PE-conjugated 6D4/D6/G2 antibody (Cat. No. 555049) is suitable for these experiments. For specific methodology, please visit our web site, www.bdbiosciences.com, and go to the protocols section or the chapter on intracellular staining in the Immune Function Handbook.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555046	Purified Anti-Human IP-10	0.5 mg	4D5/A7/C5
551130	Recombinant Human IP-10	10 µg	(none)
550926	Human IP-10 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

Luster AD, Ravetch JV. Biochemical characterization of a gamma interferon-inducible cytokine (IP-10). *J Exp Med.* 1987; 166(4):1084-1097.(Clone-specific)

Luster AD, Unkeless JC, Ravetch JV. Gamma-interferon transcriptionally regulates an early-response gene containing homology to platelet proteins. *Nature.* 1985; 315(6021):672-676.(Clone-specific)

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