

Technical Data Sheet

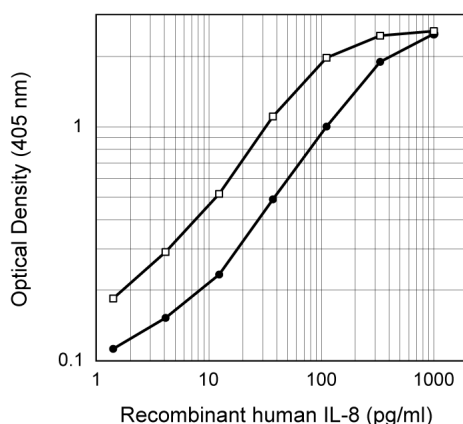
Biotin Mouse Anti-Human IL-8

Product Information

Material Number:	554718
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	G265-8
Immunogen:	Recombinant Human IL-8
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and $\leq 0.09\%$ sodium azide.

Description

The G265-8 antibody reacts with both the 72 and 77 amino acid forms of human interleukin-8 (IL-8). The immunogen used to produce the G265-8 hybridoma was E. coli-expressed recombinant human IL-8.



Human IL-8 ELISA Standard Curve. Several distinct N-termini exist in the natural protein. The open square is a 72 amino acid recombinant protein and the filled circle is a 77 amino acid recombinant protein standard.

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
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Recommended Assay Procedure:

1. ELISA Detection: For a sandwich ELISA to measure human IL-8 protein levels, the biotinylated monoclonal anti-human IL-8 antibody G265-8 (Cat. No. 554718) can be used as detector in conjunction with the purified G265-5 antibody (Cat. No. 554716) as the capture antibody, with recombinant human IL-8 (Cat. No. 554609) as the standard. The biotinylated G65-8 antibody should be titrated from 0.5-2 $\mu\text{g/ml}$ to determine the optimal concentration for ELISA detection. To obtain standard curves, doubling dilutions of human IL-8 protein ranging from ~1,000 to 1 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit our website at www.bdbiosciences.com and go to the protocols section or the chapter on ELISA in the Immune Function Handbook.

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Note: This ELISA pair shows no cross-reactivity with other cytokines or chemokines (e.g., human IL-1 α , IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-10, IL-11, IL-12, IL-13, IL-15, GM-CSF, IFN- γ , TNF, LT- α , MCP-1, MCP-2, MIP-1 α , MIP-1 β , SCF, lymphotactin, VEGF, G-CSF, NT-3, PDGF, CD23, IP-10, GRO, NAP-2, PF4).

Note: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring IL-8 in serum or plasma our human IL-8 BD™ OptEIA Set (Cat. No. 555244) or BD OptEIA Kit (Cat. No. 550999) are specifically formulated and recommended.

2. Immunofluorescent Staining and Flow Cytometric Analysis: The G265-8 antibody is useful for immunofluorescent staining and flow cytometric analysis to identify and enumerate human IL-8 producing cells within mixed cell populations. The PE-conjugated G265-8 antibody (Cat. No. 554720) is suitable for these experiments. For specific methodology, please visit our website, 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
554716	Purified Mouse Anti-Human IL-8	0.5 mg	G265-5
555244	Human IL-8 ELISA Set	20 plates	(none)
550999	Human IL-8 ELISA Kit II	2 plates	(none)
554609	Recombinant Human IL-8	20 μ g	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/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.
4. IL-8 is protected under U.S. Patent Nos. 5,652,338 and 5,698,196.

References

Matsushima K, Oppenheim JJ. Interleukin 8 and MCAF: novel inflammatory cytokines inducible by IL 1 and TNF. *Cytokine*. 1989; 1(1):2-13. (Clone-specific)