

Technical Data Sheet

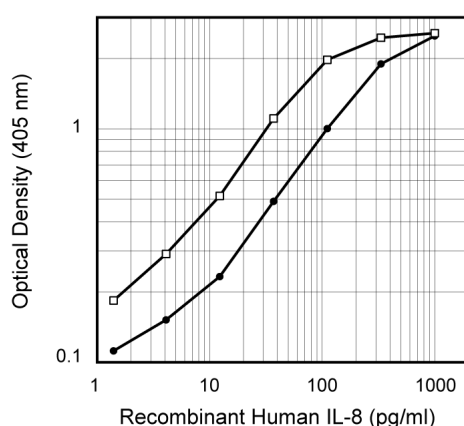
Purified Mouse Anti-Human IL-8

Product Information

Material Number:	554716
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	G265-5
Immunogen:	Recombinant Human IL-8
Isotype:	Mouse IgG2b, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ 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 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.

Store undiluted at 4°C.

Application Notes

Application

ELISA Capture	Routinely Tested
Western blot	Reported

Recommended Assay Procedure:

ELISA Capture: For a sandwich ELISA to measure human IL-8 protein levels, the G265-5 antibody (Cat. No. 554716) can be paired with the biotinylated monoclonal anti-human IL-8 detector antibody (clone G265-8; Cat. No. 554718), with recombinant human IL-8 (Cat. No. 554609) as the standard. The purified G265-5 antibody (Cat. No. 554716) should be titrated from 1 - 4 μ g/ml to determine the optimal concentration for ELISA capture. 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. It is recommended that the investigator should prepare dilutions of the sample to ensure that the level of IL-8 falls within this range. 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.

BD Biosciences

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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 mouse IL-8 in serum or plasma our mouse IL-8 BD OptEIA™ Set (Cat. No. 555244) or BD OptEIA Kit (Cat. No. 550999) are specially formulated and recommended.

This ELISA pair shows no cross-reactivity with any other cytokines (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).

Western Blot: The clone G265-5 has been reported to be useful for Western Blotting. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554609	Recombinant Human IL-8	20 μ g	(none)
554718	Biotin Mouse Anti-Human IL-8	0.5 mg	G265-8
555244	Human IL-8 ELISA Set	20 plates	(none)
550999	Human IL-8 ELISA Kit II	2 plates	(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. IL-8 is protected under U.S. Patent Nos. 5,652,338 and 5,698,196.
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

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)