

## Technical Data Sheet

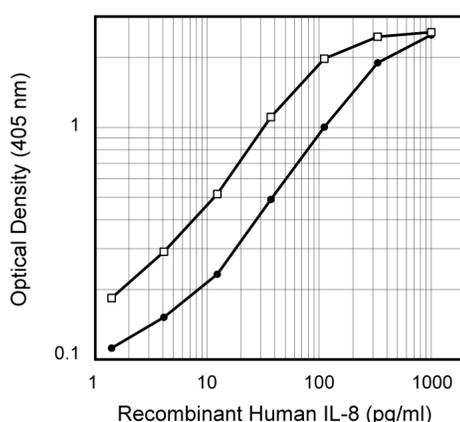
## Purified Mouse Anti-Human IL-8

## 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, $\kappa$
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  $\mu\text{g/ml}$  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  $\text{pg/ml}$  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](http://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 $\alpha$ , IL-1 $\beta$ , 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- $\gamma$ , TNF, LT- $\alpha$ , MCP-1, MCP-2, MIP-1 $\alpha$ , MIP-1 $\beta$ , 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

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554609	Recombinant Human IL-8	20 $\mu$ 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](http://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)