

## Technical Data Sheet

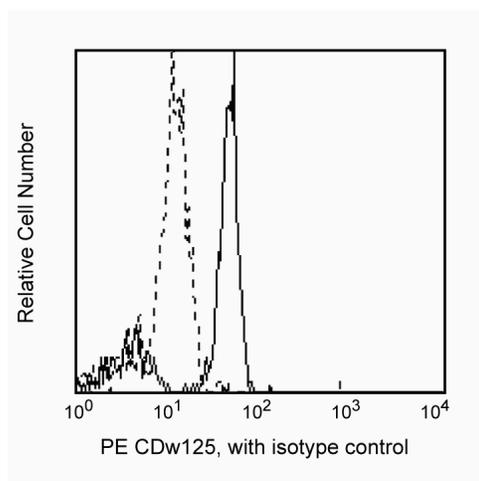
## PE Mouse Anti-Human CDw125

## Product Information

<b>Material Number:</b>	555902
<b>Alternate Name:</b>	IL-5R $\alpha$
<b>Size:</b>	0.2 mg
<b>Concentration:</b>	0.2 mg/ml
<b>Clone:</b>	A14
<b>Immunogen:</b>	IL-5R $\alpha$ -transfected cells
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	NA
<b>Storage Buffer:</b>	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

## Description

Reacts with the  $\alpha$  chain of the interleukin-5 receptor (IL-5R), a 55-60 kDa polypeptide, expressed on eosinophils and basophils. The IL-5R is composed of a specific  $\alpha$  chain and a  $\beta$  chain which is homologous to the  $\beta$  chains of interleukin-3 (IL-3R) and GM-CSF receptors. IL-5 promotes the growth and differentiation of eosinophil precursors and activates mature eosinophils. Clone A14 was developed using IL-5R  $\alpha$ -transfected cells as immunogen. This antibody binding can be blocked by IL-5.



Profile of human peripheral blood eosinophils analyzed on a BD FACScan™ (BDIS, San Jose, CA).

## Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

## Application Notes

## Application

Flow cytometry	Routinely Tested
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## Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, $\kappa$ Isotype Control	100 tests	MOPC-21
554680	PE Mouse IgG1, $\kappa$ Isotype Control	0.1 mg	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

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## 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](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
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.
5. An isotype control should be used at the same concentration as the antibody of interest.

## References

Blom M, Tool AT, Kok PT, Koenderman L, Roos D, Verhoeven AJ. Granulocyte-macrophage colony-stimulating factor, interleukin-3 (IL-3), and IL-5 greatly enhance the interaction of human eosinophils with opsonized particles by changing the affinity of complement receptor type 3. *Blood*. 1994; 83(10):2978-2984. (Biology)

Ingley E, Young IG. Characterization of a receptor for interleukin-5 on human eosinophils and the myeloid leukemia line HL-60. *Blood*. 1991; 78(2):339-344. (Biology)

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