Technical Data Sheet

Purified Mouse Anti-Human CD64

Product Information

Material Number: 555525 Size: 0.1 mg 0.5 mg/ml**Concentration:** 10.1 Clone:

Mouse IgG1, κ Isotype: QC Testing: Human Reactivity:

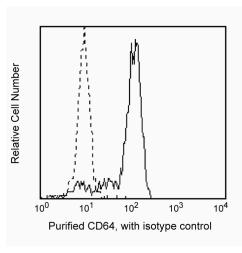
VI MA36 Workshop:

Aqueous buffered solution containing ≤0.09% sodium azide. Storage Buffer:

Description

The monoclonal antibody 10.1 reacts with CD64, a 75 kD type I transmembrane glycoprotein that is a high affinity receptor for IgG (FcγRI). CD64, a key receptor in the development of immune responses, has a dual role as a low affinity receptor for IgG3 and high affinity receptor for IgG2a linking innate and adaptive immunities. CD64 mediates endocytosis, phagocytosis, antibody-dependent cellular toxicity, cytokine release and superoxide generation. CD64 is expressed largely on macrophages and dendritic cells.

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



Profile of peripheral blood monocytes analyzed on a FACScan (BDIS, San Jose, CA)

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

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	Flow cytometry	Routinely Tested	
	Immunohistochemistry-frozen	Tested During Development	

Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 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

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Indik ZK, Hunter S, Huang MM, et al. The high affinity Fc gamma receptor (CD64) induces phagocytosis in the absence of its cytoplasmic domain: the gamma subunit of Fc gamma RIIIA imparts phagocytic function to Fc gamma RI. Exp Hematol. 1994; 22(7):599-606. (Biology)

Kishimoto T, von dem Borne AEG, Goyert SM,et al., ed. Leucocyte Typing VI: White Cell Differentiation Antigens. London: Garland Publishing; 1997. (Clone-specific)

Schlossman S, Boumell L, et al, ed. Leucocyte Typing V. New York: Oxford University Press; 1995. (Biology)

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