Technical Data Sheet

Purified Mouse Anti-Human Myeloperoxidase

Product Information

Material Number:	**556035**
Alternate Name:	MPO
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	1B10
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with myeloperoxidase (MPO), a hemoprotein of 140 kDa, composed of two heavy subunits of 52 kDa and two light chains of 15 kDa. MPO is stored in primary azurophilic granules of neutrophils and plays a major role in the bactericidal activity of neutrophils during phagocytosis. It catalyzes the generation of hypochlorous acid, a powerful oxidant. 1B10 antibody detects MPO in neutrophils, monocytes and HL-60 cells. This reagent is suitable for immunohistochemical staining of acetone-fixed, frozen tissue section, or formalin-fixed, paraffin-embedded tissue sections with TUF pretreatment, or zinc-fixed, paraffin-embedded tissue sections with no pretreatment.

Preparation and Storage

Store undiluted at 4°C.

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

Application Notes

Application

Immunohistochemistry-zinc-fixed	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
Intracellular staining (flow cytometry)	Tested During Development
Immunohistochemistry-formalin (antigen retrieval required)	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
550878	Purified Mouse IgG1 κ Isotype Control	1.0 ml	MOPC-31C
550337	Biotin Goat Anti-Mouse Ig (Multiple Adsorption)	1.0 ml	Polyclonal
550946	Streptavidin HRP	50 ml	(none)
550880	DAB Substrate Kit	500 tests	(none)
550523	IHC Zinc Fixative	2 x 500 ml	(none)
552658	10X Zinc Fixative (Formalin Free)	500 ml	(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. 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

Audrain MA, Baranger TA, Moguilevski N, et al. Anti-native and recombinant myeloperoxidase monoclonals and human autoantibodies. *Clin Exp Immunol.* 1997; 107(1):127-134. (Biology)

Lanza F, Latorraca A, Moretti S, Castagnari B, Ferrari L, Castoldi G. Comparative analysis of different permeabilization methods for the flow cytometry measurement of cytoplasmic myeloperoxidase and lysozyme in normal and leukemic cells. *Cytometry.* 1997; 30(3):134-144. (Biology)

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