

## Product datasheet for **AM26163BT-N**

### Myeloperoxidase (MPO) Mouse Monoclonal Antibody [Clone ID: 2D4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2D4
Applications:	ELISA, IF, IHC
Recommended Dilution:	Immunohistochemistry on frozen sections (starting working dilution is 1:50). Flow cytometry (starting working dilution is 1:50). Immunoassay. Immunofluorescence. The antibody is not useful for Western blotting and immunohistology on paraffin embedded sections.
Reactivity:	Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody reacts with rat myeloperoxidase (MPO).
Formulation:	PBS Label: Biotin State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Biotin
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	myeloperoxidase
Database Link:	<a href="#">P05164</a>

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**Background:**

MPO is a glycoprotein with an  $\alpha 2\beta 2$  heteromultimer expressed in all cells of the myeloid lineage. MPO is abundantly present in azurophilic granules of polymorphonuclear neutrophils. It is an important enzyme used during phagocytic lysis of engulfed foreign particles which takes part in the defense of the organism through production of hypochlorous acid (HOCl), a potent oxidant. MPO is rapidly released by activated polymorphonuclear neutrophils. Involvement of MPO has been described in numerous diseases such as atherosclerosis, lung cancer, Alzheimer's disease and multiple sclerosis. Autoimmune antibodies to MPO are involved in Wegeners disease. Since the discovery of MPO deficiency, initially regarded as rare and restricted to patients suffering from severe infections, MPO has more attracted clinical attention. In experimental studies antibodies to MPO can be used for various purposes ranging from flow cytometric analysis to detection of polymorphonuclear neutrophils in tissue sections.

**Synonyms:**

MPO