

Mouse anti-MyeloHRP, clone 266-6K1 (Monoclonal)

Clone no. 266-6K1

MONOSAN

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Product name	Mouse anti-MyeloHRP, clone 266-6K1 (Monoclonal)
Host	Mouse
Applications	ELISA,WB
Species reactivity	human
Conjugate	-
Immunogen	Unknown or proprietary to MONOSAN and/or its suppliers
Isotype	IgG1
Clonality	Monoclonal
Clone number	266-6K1
Size	1 ml
Concentration	100 ug/ ml
Format	-
Storage buffer	PBS with 0.1% BSA and 0.02% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

The monoclonal antibody 266-6K1 recognizes human myeloperoxidase (MPO), an ~135 glycoprotein expressed in all cells of the myeloid lineage. MPO functions as an  $\alpha_2\beta_2$  heteromultimer consisting of two heavy ( $\alpha$ ) and two light ( $\beta$ ) chains of 55 and 15 kDa respectively. MPO is abundantly present in azurophilic granules of polymorphonuclear neutrophils (PMNs). 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. In the stimulated PMN, MPO catalyzes the production of hypohalous acids, primarily hypochlorous acid in physiologic situations, and other toxic intermediates that greatly enhance PMN microbicidal activity. Upon activation of neutrophils, MPO can be rapidly released and as such useful in body fluids as marker for inflammatory status. Involvement of MPO has been described in numerous diseases such as atherosclerosis, lung cancer, Alzheimer's disease, inflammatory bowel disease and multiple sclerosis. Autoimmune antibodies to MPO (so called ANCA) are involved in Wegener's disease. Since the discovery of MPO deficiency, initially regarded as rare and restricted to patients suffering from severe infections, MPO has attracted more clinical attention.

**References**

1. La Rocca; G et al. Basic Res Cardiol 2009; 104: 307
2. -
3. -
4. -
5. -

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