

Catalog No. LF-PA0052

POLYCLONAL ANTIBODY



Anti-MPO(Myeloperoxidase)

Background : Myeloperoxidase is a major neutrophil protein and is also present in monocytes. In neutrophils, it is stored in azurophilic granules and released during phagocytosis. It is a heme enzyme that uses the superoxide and hydrogen peroxide generated by the neutrophil oxidative burst to produce hypochlorous acid and other reactive oxidants. The produced hypochlorous acid reacts with and destroys bacteria. In many inflammatory pathologies, such as cystic fibrosis and rheumatoid arthritis, neutrophils are also causing tissue damage. MPO is thought to be the most promising cardiac marker at the moment. In addition to that MPO is a good inflammatory biomarker for autoimmune, inflammatory diseases and cancer.

Immunogen : Synthetic peptide

Host : Rabbit

Type : Antiserum

Isotype : IgG

Size : 100 μ l

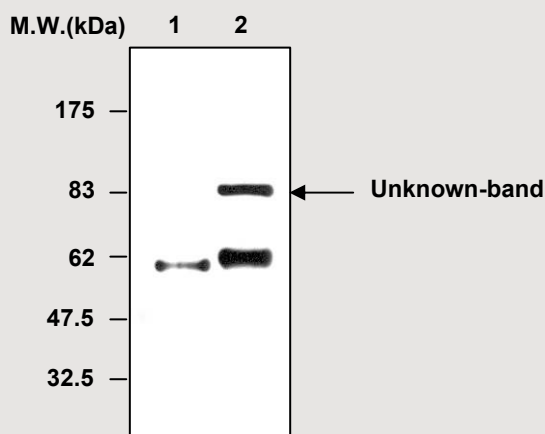
Composition : PBS containing 50% glycerol

Positive control : HL-60 cell lysate

Storage : Store for 1 year at -20°C from date of shipment

Species cross reactivity

Human +	Mouse NT	Rat NT
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Immunoblot Analysis of cell lysate
Lane 1 : Purified human MPO protein
Lane 2 : HL-60 cell lysate

Applications :

Western blotting (1:2,000)

Immunoprecipitation was not tested

Background Reference :

- 1) Winterbourn CC, et al, Curr Opin Hematol. 200; vol.7(1): pp.53-8.
- 2) Hansson M, et al, Arch Biochem Biophys. 2006; vol.445(2): pp.214-24.
- 3) Nicholls SJ, Hazen SL. Arterioscler Thromb Vasc Biol. 2005; vol.25(6): pp.1102-11.
- 4) Klebanoff SJ. J Leukoc Biol. 2005; vol.77(5): pp.598-625.

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