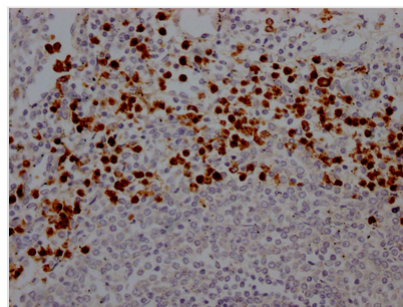




MPO Antibody

Product Code	CSB-RA617176A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P05164
Immunogen	A synthesized peptide derived from human Myeloperoxidase
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Part of the host defense system of polymorphonuclear leukocytes. It is responsible for microbicidal activity against a wide range of organisms. 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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Cardiovascular; Immunology; Metabolism
Gene Names	MPO
Accession NO.	2G11

Image



IHC image of CSB-RA617176A0HU diluted at 1:100 and staining in paraffin-embedded human spleen tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

MPO is largely produced by neutrophils in order to defend against infections. MPO is involved in the formation and maintenance of an alkaline environment in freshly formed phagosomes, which is ideal for combating bacteria. MPO



generates powerful oxidants, such as hypochlorous acid (HOCl), which kill bacteria and other invading pathogens. On the other hand, MPO plays a role in the development of a number of chronic inflammatory disorders, including atherosclerosis, neurological diseases, arthritis, and cancer.

The recombinant MPO antibody was produced by cloning antibody genes into an expression vectors, which were subsequently introduced into mammalian cells to provide animal-free antibody production. This MPO antibody has been validated in ELISA, IHC. It has the features of improved affinity, stability, and consistency between different batches.