

## Product datasheet for **AP23566PU-N**

### Myeloperoxidase (MPO) Rabbit Polyclonal Antibody

#### Product data:

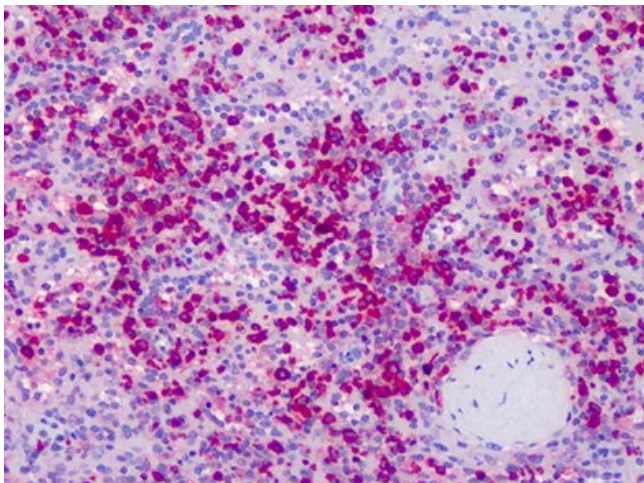
Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on Paraffin Sections:</b> 1/50.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Purified human granulocytic MPO
Specificity:	This antibody reacts to Myeloperoxidase (MPO).
Formulation:	10mM PBS, pH 7.4 containing 0.2% BSA as stabilizer and 0.09% Sodium Azide as preservative State: Liquid purified IgG fraction
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	myeloperoxidase
Database Link:	<a href="#">Entrez Gene 17523 Mouse</a> <a href="#">Entrez Gene 303413 Rat</a> <a href="#">Entrez Gene 4353 Human</a> <a href="#">P05164</a>
Background:	Myeloperoxidase (MPO) is a heme protein synthesized during myeloid differentiation that constitutes the major component of neutrophil azurophilic granules. Produced as a single chain precursor, myeloperoxidase is subsequently cleaved into a light and heavy chain. The mature myeloperoxidase is a tetramer composed of 2 light chains (12 kD) and 2 heavy chains (60 kD). This enzyme produces hypohalous acids central to the microbicidal activity of neutrophils. It is released in a degranulation process in response to bursts of oxygen consumption, which also forms H <sub>2</sub> O <sub>2</sub> . MPO and H <sub>2</sub> O <sub>2</sub> form a complex that oxidases a large variety of substances some of which have microbicidal effects. The gene for MPO is translocated in patients with acute promyelocytic leukemia and is mutated in hereditary MPO deficiency.
Synonyms:	MPO



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Protein Families: Druggable Genome

**Product images:**



Human Spleen, Neutrophils: Formalin-Fixed, Paraffin-Embedded (FFPE)