

## Product datasheet for **BP4011HRP**

### MRP8/14 (S100A8/A9) Chicken Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	<b>ELISA</b> (1/200). <b>Immunohistochemistry.</b>
Reactivity:	Bovine, Human, Porcine
Host:	Chicken
Clonality:	Polyclonal
Immunogen:	Recombinant MRP8/14. The antigen is produced by the Ca <sup>2+</sup> -dependent heterocomplex formation of MRP8 (S100A8 or Calgranulin A) and MRP14 (S100A9 or Calgranulin B), two calcium binding proteins of the S 100 protein family.
Specificity:	The antibody does not discriminate between the individual subunits MRP8 or MRP14. In immunohistochemistry, it detects early inflammatory macrophages and can thus be used for the classification of acute stage inflammation in tissue sections and in smears. The MRP8/14 specific ELISA has shown significant advantages in the early assessment of acute inflammatory conditions like certain bowel diseases or transplant rejection. The antibody reacts with a subpopulation of macrophages, monocytes and granulocytes; peripheral blood monocytes carry the antigen extra- and intracellularly, neutrophils only intracellularly. <b>Antigen Distribution</b> <b>Isolated Cells:</b> A subpopulation of monocytes and neutrophilic granulocytes are positive. Up to 80% of monocytes in early cultures (24-48h) are positive. No reaction has been seen with lymphocytes or platelets. <b>Tissue Sections:</b> Macrophages in the red pulp of the spleen and in the liver; strongly expressed on macrophages in acute inflamed tissues (peridontitis, contact eczema, urticaria, erythrodermia) where some endothelial and epidermal cells may also express this antigen; absent on normal resident mononuclear phagocytes in healthy tissues (skin, gut, thymus).



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<b>Formulation:</b>	0.1M Tris/HCl, pH 7.2 Label: HRP State: Liquid purified IgY fraction Stabilizer: 0.1% Phenol, 0.5% BSA Preservative: 0.09% Kathon
<b>Purification:</b>	Repeated Precipitation
<b>Conjugation:</b>	HRP
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: One year from despatch.
<b>Background:</b>	MRP8 and MRP14 are members of the S100 family of proteins containing 2 EF hand calcium binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21.
<b>Synonyms:</b>	Calgranulin A/B, Calprotectin, L1 Protein, CFAG, P8, P14, CAGA, CAGB, CFAG, MRP-8, MRP-14