

**MONOCLONAL ANTIBODY TO  
HUMAN S100A8 (MRP-8)  
clone 7C12/4**



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<b>Catalog nr</b>	HM2175 (lot number and expiry date are indicated on the label)
<b>Description</b>	The monoclonal antibody 7C12/4 recognizes an epitope on the S100A8 (MRP-8) protein. The calcium-binding, migration inhibitory factor-related proteins, MRP-8 (S100A8) and MRP-14 (S100A9) belong to the S100 protein family. The expression of these proteins is largely confined to the cytosol of neutrophils and monocytes. The complex formation of these proteins is a calcium-dependent process. The S100A8/A9 heterocomplex, also called MRP-8/MRP-14 complex or calprotectin, comprises 60% of the cytoplasmic protein fraction of circulating polymorphonuclear granulocytes and is also found in monocytes, macrophages and ileal tissue eosinophils. In inflammatory conditions small venules stain with both anti-S100A8 and S100A9. The staining of the two subunits is always coincident. The S100A8/A9 complex has antibacterial, antifungal and immunomodulating and antiproliferative effects. Besides this it is a potent chemotactic factor for neutrophils.
<b>Species</b>	Mouse IgM
<b>Formulation</b>	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
<b>Application</b>	The monoclonal antibody 7C12/4 can be used for Western blotting and flow cytometry. Furthermore the monoclonal antibody 7C12/4 is useful for immuno assays as detector.
<b>Use</b>	For flow cytometry and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.
<b>Storage and stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
<b>References</b>	1. Robinson, M et al; The S100 family heterodimer, MRP-8/14, binds with high affinity to heparin and heparan sulfate glycosaminoglycans on endothelial cells. J Biol Chem 2002, 277: 3658
<b>Also available</b>	HM2176            Monoclonal antibody against Human MRP-14, clone 1H9 HM2156            Monoclonal antibody against Human MRP-8/MRP-14, clone 27E10 HM2122            Monoclonal antibody against Human CD36, clone FA6-152