

Hycult biotechnology

S100A9/MRP-14, Clone 1H9, Human mAb

Catalog No.	HM2176	Quantity:	100 µg
Description:	<p>The monoclonal antibody 1H9 recognizes the KPpL epitope in the C terminal region of the S100A9 (MRP-14) 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.</p>		
Concentration:	100 µg/ml		
Specificity:	Human S100A9/MRP-14		
Host:	Mouse		
Isotype:	IgG ₁		
Clone:	1H9		
Formulation:	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Applications	<p>The monoclonal antibody 1H9 can be used for Western blotting and flow cytometry. Furthermore the monoclonal antibody 1H9 is useful for immuno assays as detector. 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.</p>		
Storage & Stability:	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.		
References:	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		
Also available:	HM2175: Monoclonal antibody against Human MRP-8, clone 7C12/4 HM2156: Monoclonal antibody against Human MRP-8/MRP-14, clone 27E10 HM2122: Monoclonal antibody against Human CD36, clone FA6-152		

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