

Hemoglobin Monoclonal Antibody (9A5)

Catalog NumberMIH9506Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Human
Host/Isotope	Mouse / IgG	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	9A5		
Immunogen	Human Hemoglobin	ELISA (ELISA)	Assay-dependent
Conjugate	Unconjugated	Immunoprecipitation (IP)	Assay-dependent
Form	Liquid	Radioimmune Assays (RIA)	Assay-dependent
Concentration	5 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Ion-exchange chromatography		
Storage buffer	PBS, pH 7.4		
Contains	0.09% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C		

**Product specific information**

MIH9506 targets Hemoglobin in ELISA, IP, and RIA applications and shows reactivity with Human samples. The MIH9506 immunogen is human Hemoglobin. MIH9506 detects Hemoglobin which has a predicted molecular weight of approximately 15 kDa. MIH9506 was formerly sold as a Seradyn product.

**Background/Target Information**

The human alpha globin gene cluster located on chromosome 16 spans about 30 kb and includes seven loci: 5'- zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 - alpha-1 - theta - 3'. The alpha-2 (HBA2) and alpha-1 (HBA1) coding sequences are identical. These genes differ slightly over the 5' untranslated regions and the introns, but they differ significantly over the 3' untranslated regions. Two alpha chains plus two beta chains constitute HbA, which in normal adult life comprises about 97% of the total hemoglobin; alpha chains combine with delta chains to constitute HbA-2, which with HbF (fetal hemoglobin) makes up the remaining 3% of adult hemoglobin. Alpha thalassemias result from deletions of each of the alpha genes as well as deletions of both HBA2 and HBA1; some nondeletion alpha thalassemias have also been reported.

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