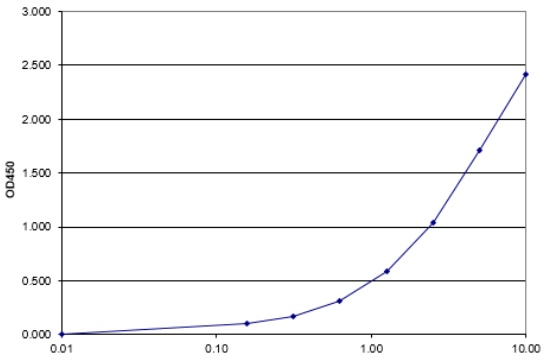
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	S100A9, Mouse, clone MU14-2A5, biotinylated		
Catalog number	HM1102BT		
Lot number	-	**Expiry date**	-
Volume	0.5 ml	**Amount**	50 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	**Concentration**	100 µg/ml
Host Species	Rat IgG1	**Conjugate**	Biotin
Endotoxin	N.A.	**Purification**	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	●	●	●		●	●		●
No								
N.D.				●			●	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot



IA: HM1102 was used as a detection antibody. The antibody was biotinylated.

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 1:50.

- W: A reduced sample treatment and SDS-Page was used. The band size is 13-15 kDa.
- Positive control: Mouse bone marrow cell extracts

General Information

Description

The monoclonal antibody MU14-2A5 recognizes S100A9. The calcium-binding, migration inhibitory factor-related proteins, MRP-8 (S100A8) and MRP-14 (S100A9) belong to the S100 protein family. MRP14 is co-expressed with human MRP8, a homologue protein in myeloid cells, and plays an essential role in calcium dependent functions during inflammation. This role includes the activation of Mac-1, the β2 integrin which is involved in neutrophil adhesion to endothelial cells. MRP14 is distinguished from other S100 member proteins by its long C-terminal region.
The expression of MRP-8 (S100A8) and MRP-14 (S100A9) 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 venueles 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.

Immunogen

Complete mouse S100A9 protein

Aliases	Migration inhibitory factor-related protein 14, MRP 14, Calgranulin B
Gene	Gene name: S100a9, Cagb, Mrp14
Cross reactivity	Rabbit: No.
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
Precautions	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 from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC	Date
Robbert Zwinkels	15/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.