

## Product datasheet for **AM31839BT-N**

### **S100A9 Mouse Monoclonal Antibody [Clone ID: CF-557]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	CF-557
Applications:	FC, IF, IHC, WB
Recommended Dilution:	<b>Flow Cytometry:</b> 2.0 µg/10 <sup>6</sup> cells. <i>Positive Control:</i> Human peripheral blood leukocytes. <b>Immunofluorescence</b> (Reported). <b>Western blot</b> (Reported). <b>Immunohistochemistry</b> (Reported).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified granulocyte antigen of Human origin.
Specificity:	This antibody Binds to Human Calgranulin B (S100A9). Other species not tested.
Formulation:	PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: Biotin State: Liquid purified IgG fraction from Ascitic fluid
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	S100 calcium binding protein A9
Database Link:	<a href="#">Entrez Gene 6280 Human P06702</a>



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**Background:**

Calgranulin B, also known as MRP-14 and S100A9 is a member of the S100 family of proteins containing 2 EF hand (alpha helix, turn, alpha helix structure) calcium binding motifs. S100 proteins are localized in the cytoplasm and /or nucleus of a wide range of cells and are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation.

MRP-14 (S100A9) forms a heterodimeric complex with MRP-8 (S100A8) in the cytosol of monocyte and neutrophil cell types circulating in peripheral blood. Calgranulin B is found in elevated levels in the serum of cystic fibrosis cases and is also expressed in the skin of patients with psoriasis, eczematous dermatitis and squamous cell carcinoma. Calgranulin B is also expressed on macrophages in acute inflamed tissues (peridontitis, contact excema).

**Synonyms:**

S100-A9, CAGB, MRP-14