

Product datasheet for **AM32035PU-N**

S100A9 Mouse Monoclonal Antibody [Clone ID: 47-8D3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	47-8D3
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Western blot: 47-8D3 was found to detect a single protein band of 14 kDa in lysates of Human monocytes and granulocytes, which was demonstrated to be the calcium-binding protein MRP14. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: Staining is strongly enhanced after digestion with <i>Trypsin</i> .
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A BALB/c mouse was immunized with human peripheral blood monocyte components. Splenocytes were fused with Mouse myeloma cell line NS-1.
Specificity:	This Monoclonal antibody <i>clone 47-8D3</i> reacts with macrophages and detects the well-known leukocyte L1, cystic fibrosis antigen. 47-8D3 can be used for phenotypical characterization of macrophages and myelomonocytic cells <i>in situ</i> .
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
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



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Database Link: [Entrez Gene 6280 Human P06702](#)

Background: S100A9 is a member of the S100 family of proteins. S100A9, together with S100A8 forms a heterodimeric protein complex, Calprotectin, which is a major calcium- and zinc-binding protein in the cytosol of neutrophils, monocytes, and keratinocytes. Complexes of S100A8 and S100A9 are the physiologically relevant forms of these proteins. S100A9 may function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis. Its expression and potential cytokine-like function in inflammation and in cancer suggest that S100A8/A9 may play a key role in inflammation-associated cancer.

Synonyms: S100-A9, CAGB, MRP-14