

Product datasheet for **AM10219PU-N**

S100A12 Mouse Monoclonal Antibody [Clone ID: 19F5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	19F5
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/2000-1/10000. Western Blot: 1/200-1/1000. Immunohistochemistry: 1/100-1/500.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant S100A12 protein
Specificity:	Reacts with 10 kDa Human S100A12 protein. No cross reaction with the other S100 protein family.
Formulation:	PBS State: Purified State: Lyophilized purified powder Preservative: None
Reconstitution Method:	Restore in distilled water.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	S100 calcium binding protein A12



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Database Link: [Entrez Gene 6283 Human P80511](#)

Background: S100 family proteins are acidic low molecular weight proteins containing 2 EF-hand calcium binding domains. They are characterised by their cell-type specific expression patterns. S100A12 is a member of the calgranulin sub-family. Calgranulins are S100 proteins that are expressed by neutrophils and also found in infiltrating monocytes and granulocytes during chronic inflammation. S100A12 is expressed in neutrophils and monocytes. It is highly abundant in resting neutrophils, comprising 5% of total cytosolic protein. S100A12 is a ligand for RAGE. Interaction with RAGE on mononuclear phagocytes, lymphocytes and endothelium triggers cellular activation. Nuclear factor kappa B, a key transcription factor for inflammatory events, is activated by S100A12/RAGE. S100A12 has also been shown to have anti-microbial properties.

Synonyms: S100-A12, Calgranulin-C, CAGC, CGRP, CAAF1, EN-RAGE