S100A12 Rabbit pAb

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Swiss-Prot No.:	P80511
Alternname:	S100A12
Storage/Stability:	Store at -20° C. Avoid freeze / thaw cycles.
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-92 of human S100A12 (NP_005612.1).
Purification:	Affinity purified
Reactivity:	Human
Other Names:	p6; CAGC; CGRP; MRP6; CAAF1; MRP-6; ENRAGE
Cellular localization:	Cell membrane, Cytoplasm, Cytoskeleton, Membrane, Secreted
Relevance:	S100A12 is a calcium-, zinc- and copper-binding protein which plays a prominent role in the regulation of inflammatory processes and immune response. Its proinflammatory activity involves recruitment of leukocytes, promotion of cytokine and chemokine production, and regulation of leukocyte adhesion and migration. Acts as an alarmin or a danger associated molecular pattern (DAMP) molecule and stimulates innate immune cells via binding to receptor for advanced glycation endproducts (AGER). Binding to AGER activates the MAP-kinase and NF-kappa-B signaling pathways leading to production of proinflammatory cytokines and up-regulation of cell adhesion molecules ICAM1 and VCAM1. Acts as a monocyte and mast cell chemoattractant. Can stimulate mast cell degranulation and activation which generates chemokines, histamine and cytokines inducing further leukocyte recruitment to the sites of inflammation. Can inhibit the activity of matrix metalloproteinases; MMP2, MMP3 and MMP9 by chelating Zn2+ from their active sites. Possesses filariacidal and filariastatic activity. Calcitermin possesses antifungal activity against C.albicans and is also active against E.coli and P.aeruginosa but not L.monocytogenes and S.aureus.
Source:	Rabbit
Antibody type:	Polyclonal antibody
Isotype:	Rabbit IgG

Molecular Weight:	10kDa
Preservative:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Recommended Dilutions:	IHC 1:50 - 1:100(Optimal dilutions should be determined by the end user)