

Protein S100-A9 Monoclonal Antibody

Catalog No: #42027

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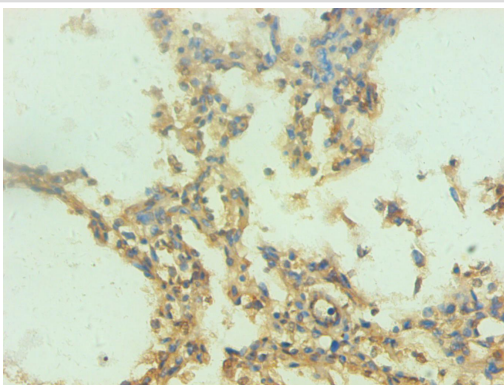
Description

Product Name	Protein S100-A9 Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	protein G purified
Applications	IHC
Species Reactivity	Hu
Specificity	specific for Human S100A9 denatured and native forms
Immunogen Type	protein
Immunogen Description	Recombinant Human S100A9
Target Name	Protein S100-A9
Other Names	Calgranulin-B, Calprotectin L1H subunit, Leukocyte L1 complex heavy chain, Migration inhibitory factor-related protein 14, MRP-14, p14, S100 calcium-binding protein A9
Accession No.	Swiss-Prot#: P06702
Uniprot	P06702
GeneID	6280;
Concentration	1.0mg/mL
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

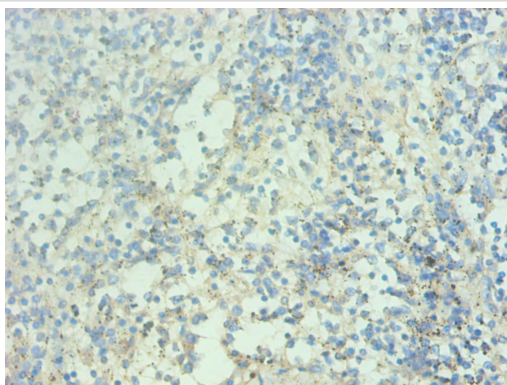
Application Details

Immunohistochemistry: 1:20 - 1:200

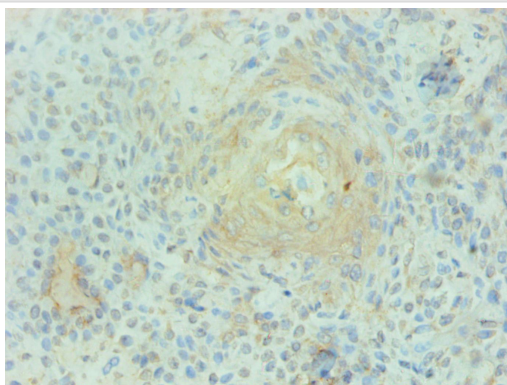
Images



Immunohistochemical analysis of paraffin-embedded human lung tissue using #42027 at dilution of 1:200.



Immunohistochemical analysis of paraffin-embedded human spleen tissue using #42027 at dilution of 1:200.



Immunohistochemical analysis of paraffin-embedded human breast cancer using #42027 at dilution of 1:200.

Background

S100A9 is a calcium- and zinc-binding protein which plays a prominent role in the regulation of inflammatory processes and immune response. It can induce neutrophil chemotaxis, adhesion, can increase the bactericidal activity of neutrophils by promoting phagocytosis via activation of SYK, PI3K/AKT, and ERK1/2 and can induce degranulation of neutrophils by a MAPK-dependent mechanism. Predominantly found as calprotectin (S100A8/A9) which has a wide plethora of intra- and extracellular functions. The intracellular functions include: facilitating leukocyte arachidonic acid trafficking and metabolism, modulation of the tubulin-dependent cytoskeleton during migration of phagocytes and activation of the neutrophilic NADPH-oxidase. Activates NADPH-oxidase by facilitating the enzyme complex assembly at the cell membrane, transferring arachidonic acid, an essential cofactor, to the enzyme complex and S100A8 contributes to the enzyme assembly by directly binding to NCF2/P67PHOX. The extracellular functions involve proinflammatory, antimicrobial, oxidant-scavenging and apoptosis-inducing activities.

Note: This product is for in vitro research use only