

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse S100A8 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant mouse (rm) S100A9, rmS100A10, and recombinant human S100B is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse S100A8 Pro2-Glu89 Accession # P27005
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Mouse S100A8, also known as CP-10, Calgranulin A and MRP8, is a 10 kDa member of the S100 family of calcium-binding proteins. S100A8 contains short sequential modules, including an N-terminal α -helix, a Ca^{++} -binding EF-hand segment, a short central linker region, a second EF-hand segment, and a C-terminal α -helix. S100A8 noncovalently heterodimerizes with S100A9. In the presence of Ca^{++} , the heterodimers form heterotetramers. The dimeric complex is found both intracellularly and extracellularly. It binds to heparan sulfate and is chemotactic for PMNs and macrophages. The amino acid sequence of mouse S100A8 is 80% and 57% identical to that of rat and human S100A8, respectively.

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