

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse S100A8 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 40% cross-reactivity with recombinant human (rh) S100A8 is observed and no cross-reactivity with recombinant mouse (rm) S100A4, rmS100A9, rmS100A10, rmS100A11, rh
Source	Monoclonal Rat IgG _{2B} Clone # 335806
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse S100A8 Met1-Glu89 (predicted) Accession # P27005
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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 CP-10, calgranulin A and MRP8) is a 10 kDa member of the S100 family of calcium-binding proteins. The S100A8 protein is 89 amino acids (aa) in length and contains short, sequential modules. There is an N-terminal α -helix, followed by a calcium-binding EF-hand segment, and a C-terminal α -helix. S100A8 will noncovalently heterodimerize with S100A9. In the presence of calcium, this heterodimer will form a heterotetramer. The dimeric complex is both intracellular and extracellular. It binds heparan sulfate and is chemotactic for PMNs and macrophages. Mouse S100A8 shares 80% and 57% aa sequence identity with rat and human S100A8, respectively.

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