

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse S100A16 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human S100A16 is observed, and less than 1% cross-reactivity with recombinant mouse S100A4, recombinant human (rh) S100A2, and
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E.coli-derived recombinant mouse S100A16 Ala2-Ser124 Accession # NP_080692
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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 S100A16 (S100 calcium-binding protein A16; also S100F and AAG13) is a 15-18 kDa member of the S100 family of calcium-binding proteins. It is found in both cytoplasm (when Ca is high) and nucleus (when Ca is low), and its expression appears to be restricted to astrocytes found in select areas of the brain. S100A16 is 124 amino acids (aa) in length. Based on human, it will contain an N-terminal non-Ca-binding EF-hand domain (aa 12-47), a C-terminal Ca-binding EF-hand domain (aa 54-89), and a putative FGF-1 binding site (aa 91-94). There is one potential myristoylation site (aa 54-59) and a phosphorylation site at Ser124. S100A16 will homodimerize, and perhaps form higher order oligomers. Full length mouse S100A16 shares 95% aa identity with rat S100A16. Relative to human S100A16, mouse S100A16 possesses a 21 aa Glu/Gln-rich insertion after Glu98 that reduces the shared aa homology between mouse and human S100A16 to 72% aa identity.

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