

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse S100A6 in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant mouse S100A1 and recombinant mouse S100A4 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse S100A6 Met1-Lys89 Accession # P14069
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.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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 S100A6 (also prolactin receptor-associated protein and calyculin) is a 10 kDa member of the S100 family of calcium-binding proteins. S100A6 is 89 amino acids (aa) in length and contains two calcium-binding EF-hand domains (aa 12-47 and 48-83). Intracellularly, S100A6 will both noncovalently homodimerize and heterodimerize with S100B plus SGT1. Extracellularly, it is secreted via a noncanonical pathway and binds to RAGE, inducing apoptosis. It is expressed by neurons, endothelium, fibroblasts and glandular epithelia. Mouse S100A6 is 99% and 96% aa identical to rat and human S100A6, respectively.

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