

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human S100A6 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse S100A6 and no cross-reactivity with recombinant human (rh) S100A1, rhS100A4, or rhS100B is observed.                                   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 754102                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human S100A6<br>Met1-Gly90<br>Accession # P06703                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

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

## BACKGROUND

S100A6, also called PRA (prolactin receptor-associated protein) and calcyclin, is a 10 kDa member of the S100 family of calcium-binding proteins. Human S100A6 is 90 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. Human S100A6 shares 95% aa sequence identity with mouse and rat S100A6. This antibody detects mouse S100A6 in Western Blots. Mouse cross-reactivity has not been tested in Immunohistochemistry

## PRODUCT SPECIFIC NOTICES

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