

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                         |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human $\beta$ -Actin in direct ELISAs.                                                |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>1</sub> Clone # 937210                                              |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                    |
| <b>Immunogen</b>                                                                                                                                                                                        | Peptide containing a sequence at the N-terminus of human $\beta$ -Actin<br>Accession # P60709 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm               |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

**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

Actin makes up the most abundant protein in many eukaryotic cell types. It polymerizes to form microfilaments that have an array of functions, including regulating contractility, motility, cytokinesis, phagocytosis, adhesion, cell morphology, and providing structural support. At least six types of Actin, falling into three categories, exist in higher eukaryotes. The three types, separated based on isoelectric point, include  $\alpha$  ( $\alpha$ -Skeletal,  $\alpha$ -Cardiac,  $\alpha$ -Smooth Muscle),  $\beta$  ( $\beta$ -Non-muscle) and  $\gamma$  ( $\gamma$ -Smooth Muscle,  $\gamma$ -non-muscle) isoforms. Non-muscle  $\beta$ - and  $\gamma$ -actin are also known as cytoplasmic actin.

## PRODUCT SPECIFIC NOTICES

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