

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                            |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human $\alpha$ -Taxilin in direct ELISAs and Western blots.                              |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>1</sub> Clone # 812901                                                 |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                       |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human $\alpha$ -Taxilin<br>Met1-Lys162<br>Accession # P40222 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 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.

**Western Blot** 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

$\alpha$ -Taxilin (TXLN- $\alpha$ ; also p75 [in rat] and IL-14 $\alpha$ ) is the founding member of the taxilin family of proteins. Although its predicted MW is 62 kDa, it runs anomalously at 74-76 kDa in SDS-PAGE.  $\alpha$ -Taxilin is ubiquitously expressed and participates in intracellular vesicle trafficking. In particular,  $\alpha$ -Taxilin interacts with syntaxin family members that localize to the plasma membrane, providing for SNARE complex formation.  $\alpha$ -Taxilin also regulates the placement of growing protein chains. Human  $\alpha$ -Taxilin is 546 amino acids (aa) in length. Its defining characteristic is a large coiled-coil region between aa 186-491. When an alternate start site at Met176 is used, a secreted cytokine is generated termed IL-14 $\alpha$ . Over aa 1-162, human  $\alpha$ -Taxilin shares 81% aa identity with mouse  $\alpha$ -Taxilin.

#### PRODUCT SPECIFIC NOTICES

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