

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse                                                                                                                                                                                                                                                                 |
| <b>Specificity</b>        | Detects human MAGI2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant ARIP-2 is observed.                                                                                                                                |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human MAGI2<br>Ser2-Arg130<br>Accession # Q86UL8                                                                                                                                                                                        |
| <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<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>Immunocytochemistry</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

MAGI2 (AIP-1, ACVRINP1 also known as Activin receptor-interacting protein 1 and S-SCAM in rodents); is a 160-180 kDa member of the MAGUK family of proteins. It is found in neuronal post-synaptic membrane complexes, and serves as a molecular scaffold for multiple proteins, including  $\alpha$ -actinin, dendrin, SMAD3 and  $\beta$ -catenin. ARIP-1 facilitates the signaling of both growth factor and neurotransmitter receptors such as ActRIIA, NMDA and  $\beta_1$ -adrenergic receptors. Human ARIP-1 is 1455 amino acids (aa) in length. It contains an N-terminal PZD domain (aa 17-101), followed by a guanylate kinase-like domain (aa 109-283), two WW domains (aa 302-381) and five subsequent PZD domains (aa 426-1229). ARIP-1 is reported to dimerize/oligomerize. There are three potential isoform variants. All utilize an alternative start site at Met164 that may be accompanied by either an Arg substitution for aa 757-771, or a 48 aa substitution for aa 1236-1455. Over aa 2-130, human and mouse ARIP-1 are identical in aa sequence.

#### PRODUCT SPECIFIC NOTICES

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