

#### DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                    |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse Pygopus-1 in direct ELISAs and Western blots.                              |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                      |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant mouse Pygopus-1<br>Ser2-Ala417<br>Accession # Q9D0P5 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 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

Pygopus (the name of a legless Australian lizard) is a 45 kDa transcription co-activator that functions in the Wnt signaling pathway. Mouse Pygopus-1 is a nuclear protein that is synthesized as a 417 amino acid residue protein that has the conserved N-terminal homology domain (NHD) and the C-terminal PHD (Plant homeodomain) finger Zn<sup>2+</sup>-binding domain. A nuclear localization signal is present within the NHD. The PHD finger of Pygopus binds to Legless/Bcl9, which in turn binds β-Catenin, which recruits TCF/LEF DNA binding proteins. Formation of the quaternary complex is required for Wnt signaling. Mouse and human Pygopus-1 share 87% amino acid sequence homology.

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