

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Pygopus-2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Pygopus-1 or recombinant mouse Pygopus-1 is observed.                                                                                              |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 539730                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Pygopus-2<br>Met160-Glu336<br>Accession # NP_612157                                                                                                                                                                               |
| <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<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

Human Pygopus-2 (pygopus; the name of a legless Australian lizard) is a 41 kDa, 406 amino acid (aa) transcriptional coactivator. It contains three domains: an N-terminal NLS (aa 41-47), followed by a proline-rich region and a zinc-finger PHD-type domain (aa 330-387). A potential internal alternate start site may generate an isoform that deletes the first 37 aa. Pygopus 2 is a nuclear protein that acts in concert with BCL-9 and TCF to retain β-Catenin in the nucleus during Wnt-signaling. It does so by forming a "chain-of-adaptors" with the above three proteins. Over the range of aa used for immunization, human pygopus 2 is 95% identical to mouse.

## PRODUCT SPECIFIC NOTICES

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