

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG _{2B} Clone # 539730
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Pygopus-2 Met160-Glu336 Accession # NP_612157
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	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.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

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.

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