

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Pygopus-1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Pygopus-1 Ser2-Ala417 Accession # Q9D0P5
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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

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 Zn²⁺-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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