

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Pygopus-2 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human Pygopus-1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Pygopus-2 Met160-Glu336 Accession # Q9BRQ0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Pygopus-2

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Pygopus-2 is a 41 kDa nuclear protein that functions as a transcriptional co-activator in the Wnt signaling pathway. Human Pygopus-2 is synthesized as a 406 amino acid (aa) residue protein that has the conserved N-terminal homology domain (NHD) and the C-terminal PHD (Plant homeodomain) zinc finger. The PHD zinc finger binds Legless/Bcl9, which in turn binds β-Catenin, which recruits TCF/LEF DNA binding proteins. Formulation of the quaternary complex is required for the activation of Wnt-responsive genes. Over the region used for immunization, human Pygopus-2 shares 95% amino acid sequence identity with the mouse protein.