Human/Mouse Pygopus-1 Antibody

Monoclonal Mouse IgG_1 Clone # 466023

Catalog Number: MAB3617

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Pygopus-1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 466023
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Pygopus−1 Ala2-Ala419 Accession # Q9Y3Y4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

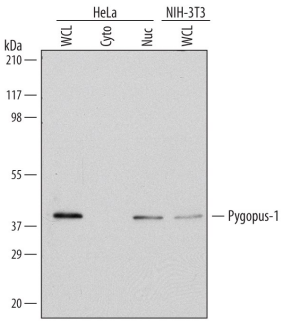
APPLICATIONS

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	1 µg/mL	See Below

DATA

Western Blot



Detection of Human and Mouse Pygopus-1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and NIH-3T3 mouse embryonic fibroblast cell line. Gels were loaded with 30 µg of whole cell lysate (WCL), 20 µg of cytoplasmic (Cyto), and 10 µg of nuclear extracts (Nuc). PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse Pygopus-1 Monoclonal Antibody (Catalog # MAB3617) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Pygopus-1 at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 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

Human Pygopus-1 (PYGO1, the name of a legless Australian lizard) is a 45 kDa, 419 amino acid (aa) transcriptional coactivator. It contains four domains: an N-terminal NLS (aa 35-41), followed by a Pro-rich, Asn-rich, and zinc-finger PHD-type domain (aa 340-398). It is a nuclear protein that acts in concert with BCL-9 to retain β-catenin in the nucleus during Wnt-signaling. In particular, following β-catenin activation and translocation to the nucleus, β-catenin first binds to BCL-9 in a phosphorylation-independent manner. Its continued presence in the nucleus depends upon BCL-9 binding to Pygopus. Once anchored, β-catenin interacts with TCF to activate Wnt-responsive genes. Human Pygopus-1 shares 87% aa sequence identity with mouse Pygopus-1.

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