Human/Mouse PGC1β Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5656

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human/mouse PGC1β in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human PGC1β Ala315-Val420 Accession # Q86YN6
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

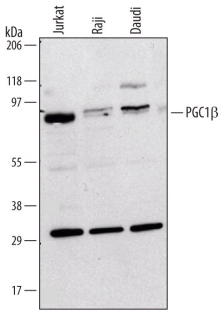
APPLICATIONS

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	0.2 µg/mL	See Below

DATA

Western Blot



Detection of Human PGC1β by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, Raji human Burkitt's lymphoma cell line, and Daudi human Burkitt's lymphoma cell line. PVDF membrane was probed with 0.2 µg/mL of Human/Mouse PGC1β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5656) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for PGC1β at approximately 97 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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	**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 from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

BACKGROUND

PGC1β (peroxisome proliferator-activated receptor gamma coactivator 1 beta), also known as PPARGC1B, is an 110 kDa protein that belongs to a family of PPAR co-activators. It coactivates nuclear receptors such as ERRalpha, upregulating expression of proteins that promote mitochondrial fusion and control basal mitochondrial biogenesis. N- and C-terminal alternate sequences, or deletion of amino acids (aa) 156-194, produce isoforms of 984, 1017, 1023 (most common) and 1055 aa. Human PGC1β aa 315-420, which is common to all isoforms, shares 79% and 76% aa identity with mouse and rat PGC1β, respectively.