Human Jak3 Antibody

Monoclonal Mouse IgG_{2B} Clone # 452506

Catalog Number: MAB4699

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Jak3 in Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 452506
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Jak3 Gly46-Thr209 Accession # P52333
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 either lyophilized or as a 0.2 μm filtered solution in PBS.

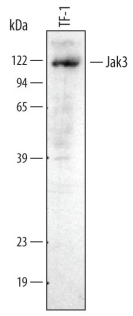
APPLICATIONS

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	2 µg/mL	See Below

DATA

Western Blot



Detection of Human Jak3 by Western Blot. Western blot shows lysates of TF-1 human erythroleukemic cell line. PVDF membrane was probed with 2 µg/mL of Human Jak3 Monoclonal Antibody (Catalog # MAB4699) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Jak3 at approximately 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

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

Janus Kinase 3 (Jak3) belongs to the Jak family of protein tyrosine kinases that couple to cytokine receptors and are activated by ligand binding to these receptors. Also known as Leukocyte Janus Kinase (LJak), Jak3 is activated after binding to the gamma chain of Interleukin receptors, specifically the IL-2 and IL-4 receptors. Activation of Jak3 is associated with the rapid tyrosine phosphorylation of STAT proteins. Defects in Jak3 cause an autosomal severe combined immunodeficiency disease (SCID).

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449