

Human DOCK2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5339

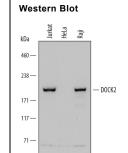
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human DOCK2 in Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human DOCK2 Gly420-Gly642 Accession # Q92608	
Formulation	Lyophilized from a 0.2 µm filtered solution in 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	1 μg/mL	See Below

DATA



Detection of Human DOCK2 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, HeLa human cervical epithelial carcinoma cell line, and Raji human Burkitt's lymphoma cell line. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human DOCK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5339) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for DOCK2 at approximately 190 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.

*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

DOCK2 (Dedicator of cytokinesis protein 2) is a member of the DOCK-A family, DOCK180 superfamily of proteins. Its predicted molecular weight is 210 kDa, although it may run approximately at 190 kDa in SDS-PAGE. It is found in hematopoietic cell types, and regulates the activity of the GTPases Rac-1 and -2. Human DOCK2 is 1830 amino acids (aa) in length. It contains one SH3 domain (aa 8-69), a DHR-1 region that localizes DOCK2 to the plasma membrane (aa 420-662), and a DHR-2 domain that binds to nucleotide-free GTPases and shows GEF activity (aa 1115-1621). There are two isoform variants, one that shows a 38 aa substitution for Tyr1405, and a second that shows a start site at Met450 with accompanying deletions of aa 462-494 and 630-766, and a 22 aa substitution for aa 934-1830. Over aa 420-642, human DOCK2 shares 96% aa identity to mouse DOCK2.

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