

DESCRIPTION

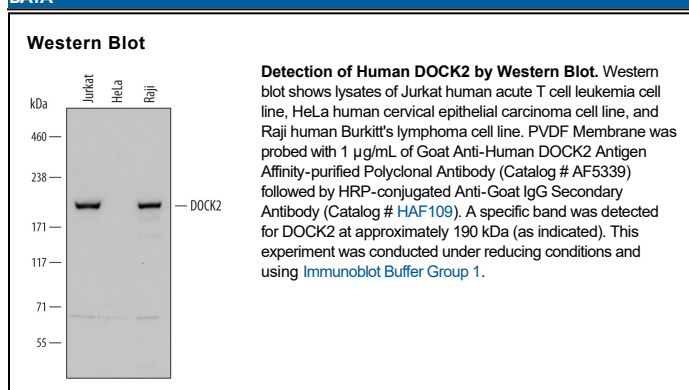
Species Reactivity	Human
Specificity	Detects human DOCK2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DOCK2 Gly420-Gly642 Accession # Q92608
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. 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



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. <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

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.