Human DOCK2 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5339G
100 µg

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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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