Human/Rat DOCK1 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF7070G
100 µg

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects recombinant human DOCK1 in direct ELISAs. Detects human and rat DOCK1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human DOCK1 Gly422-Ser666 Accession # Q14185
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

DOCK1 (Dedicator of cytokinesis protein 1) is a member of the DOCK-A family, DOCK180 superfamily of proteins. Although its predicted molecular weight is 215 kDa, it runs anomalously at 180-190 kDa in SDS-PAGE. It is generally found in non-hematopoietic cell types, and transduces signals from cell membrane receptors by regulating the activity of the GTPases Rac-1 and -2. This impacts both cell migration and phagocytosis. Human DOCK1 is 1865 amino acids (aa) in length. It contains one protein-interaction SH3 domain (aa 9-70), a DHR-1 region that localizes DOCK1 to the plasma membrane and PI3 kinase (aa 422-664), a DHR-2 domain that binds to nucleotide-free GTPases and shows GEF activity (aa 1111-1616), and two SH3-binding motifs (aa 1799-1843). There are four potential phosphorylation sites and one isoform variant that shows a start site at Met114. Over aa 422-666, human DOCK1 shares 97% aa identity with mouse DOCK1.

PRODUCT SPECIFIC NOTICES

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