

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	<i>E. coli</i> -derived recombinant human DOCK1 Gly422-Ser666 Accession # Q14185
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.