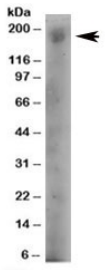
DOCK1 Antibody (R36308)

Catalog No.	Formulation	Size
R36308-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Cow, Dog, Mouse, Pig, Rat
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	1793
Applications	Western blot: 4-8ug/ml
Limitations	This DOCK1 antibody is available for research use only.



Western blot testing of human A431 lysate with DOCK1 antibody at 4ug/ml. Predicted molecular weight: 215kDa, routinely observed at 180~215kDa.

Description

DOCK1 Antibody is designed for the detection and study of DOCK1 (Dedicator of Cytokinesis 1), a member of the DOCK family of guanine nucleotide exchange factors that regulate signaling through Rac-family small GTPases. Also known as DOCK180, DOCK1 functions as an important mediator of intracellular signaling pathways that coordinate cytoskeletal organization, cellular morphology, adhesion, and migration. Through activation of Rac-dependent signaling networks, DOCK1 helps translate extracellular cues into coordinated cellular responses that influence tissue organization and cellular behavior.

DOCK1 plays a central role in regulation of actin cytoskeletal dynamics, a process essential for cellular movement, polarity, and interaction with the extracellular environment. By promoting activation of Rac GTPases, DOCK1 influences signaling pathways that control cell shape changes, membrane remodeling, and directional migration. These functions are important for numerous physiologic processes requiring dynamic cellular movement and structural adaptation.

Research has implicated DOCK1 in a wide range of biologic pathways including tissue morphogenesis, wound repair, neuronal development, immune cell function, and maintenance of normal tissue architecture. Because cellular migration and cytoskeletal remodeling are fundamental components of development and tissue homeostasis, DOCK1 has become an important target for studies examining how cells coordinate movement and communication within complex tissue environments.

Beyond its role in normal physiology, DOCK1 is frequently investigated in research involving cancer biology, cellular invasion, metastasis, and signaling pathways associated with disease progression. As a regulator of Rac-mediated signaling, DOCK1 occupies a key position within molecular networks that influence cellular motility, adhesion, and responses to environmental stimuli. Researchers continue to study how DOCK1 contributes to regulation of dynamic cellular processes across a broad range of biologic systems.

DOCK1 Antibody is useful for evaluating DOCK1 expression and investigating molecular mechanisms involved in cell migration, cytoskeletal regulation, cellular adhesion, Rac signaling, and tissue organization. Researchers utilize DOCK1 Antibody reagents to study pathways governing cellular dynamics, morphogenesis, and regulation of complex cellular behaviors.

Learn more about DOCK1 and its role in cell migration, cytoskeletal remodeling, and cellular adhesion on our DOCK1 Antibody / Cell Migration Protein Antibody page.

Application Notes

Optimal dilution of the DOCK1 antibody should be determined by the researcher.

Immunogen

Amino acids TTRKQTSVDSGIVQ were used as the immunogen for this DOCK1 antibody.

Storage

Aliquot and store the DOCK1 antibody at -20oC.

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