

bs-12431R**[Primary Antibody]**

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DOCK2 Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 1794	SWISS: Q92608	IHC-F (1:100-500)
Target: DOCK2		IF (1:100-500)
Immunogen: KLH conjugated synthetic peptide derived from human DOCK2: 451-550/1830.		ICC/IF (1:100-500)
Purification: affinity purified by Protein A		ELISA (1:5000-10000)
Concentration: 1mg/ml		Reactivity: (predicted: Human, Mouse, Rat, Sheep, Cow, Dog)
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Predicted MW.: 212 kDa
Background: The DOCK2 gene encodes dedicator of cytokinesis 2 (DOCK 2), a hematopoietic cell-specific CDM family protein that is indispensable for lymphocyte chemotaxis. DOCK 2 participates in the cytoskeletal rearrangements that are required for lymphocyte migration in response of chemokines. This peripheral membrane protein activates Rac 1 and Rac 2 small GTPases, while presumably acting as a guanine nucleotide exchange factor (GEF), which exchanges bound GDP for free GTP. DOCK 2 may also participate in IL-2 transcriptional activation through the activation of Rac 2. DOCK 2 contains one DHR-1 (CZH-1) domain, one DHR-2 (CZH-2) domain and one SH3 domain. The DHR-2 domain is a putative GEF activity mediator. The DOCK 2 protein also co-localizes with F-Actin, and demonstrates expression in several human tissues, with the highest levels observed in peripheral blood leukocytes, thymus, spleen and liver.		Subcellular Location: Cell membrane

— SELECTED CITATIONS —

- **[IF=5.7]** Qiu, Jianli. et al. Inhibition of RAC1 activator DOCK2 ameliorates cholestatic liver injury via regulating macrophage polarisation and hepatic stellate cell activation. BIOLOGY DIRECT. 2025 Feb 8;20(1):21. IHC, IF ; Liver specimens. 39923106
- **[IF=2.9]** Yiran Shen. et al. Single-Cell Transcriptomics Reveals a Pivotal Role of DOCK2 in Sjögren Disease. ACR Open Rheumatology. 2024 Oct;: IF ; Mouse. 39382155