



## Rabbit Anti-DOCK4 antibody

SL12432R

<b>Product Name:</b>	DOCK4
<b>Chinese Name:</b>	细胞质分裂付出蛋白4抗体
<b>Alias:</b>	Dedicator of cytokinesis protein 4; Dock4; DOCK4_HUMAN; KIAA0716.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	225kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human DOCK4:1001-1100/1966
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	DOCK 4 is a cytoplasmic peripheral membrane protein that belongs to the DOCK family of cytokinesis-regulating proteins. Expressed ubiquitously with highest expression in prostate, ovary and skeletal muscle, DOCK 4 functions as a guanine nucleotide exchange factor (GEF) that activates the small GTPase Rap 1 and, via this activation, plays a role in the regulation of adherens junctions between cells. Similar to other DOCK family members, DOCK 4 contains an N-terminal SH3 domain, a C-terminal proline-rich region and two internal DOCK homology regions designated

DHR1 and DHR2. Defects in the gene encoding DOCK 4 result in the inactivation of Rap 1 and are, thus, implicated in the pathogenesis of various cancers such as ovarian, prostate, glioma and colorectal carcinomas. Four isoforms of DOCK 4 are expressed due to alternative splicing events.

**Function:**

Involved in regulation of adherens junction between cells. Functions as a guanine nucleotide exchange factor (GEF), which activates Rap1 small GTPase by exchanging bound GDP for free GTP.

**Subunit:**

Interacts with the SH3 domain of CRK. Interacts with nucleotide-free Rap1. Interacts with FASLG. Interacts with ELMO2 and EPHA2; mediates activation of RAC1 by EPHA2.

**Subcellular Location:**

Endomembrane system.

**Tissue Specificity:**

Widely expressed at low level. Highly expressed in skeletal muscle, prostate and ovary.

**Similarity:**

Belongs to the DOCK family.  
Contains 1 DHR-1 (CZH-1) domain.  
Contains 1 DHR-2 (CZH-2) domain.  
Contains 1 SH3 domain.

**SWISS:**

Q8N1I0

**Gene ID:**

9732

**Database links:**

[Entrez Gene: 9732](#)Human

[Entrez Gene: 238130](#)Mouse

[Omim: 607679](#)Human

[SwissProt: Q8N1I0](#)Human

[SwissProt: P59764](#)Mouse

**Important Note:**

	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
--	---------------------------------------------------------------------------------------------------------------------------

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)