



## DOCK4 rabbit pAb

<b>Catalog No</b>	YP-Ab-08408
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	DOCK4 KIAA0716
<b>Protein Name</b>	DOCK4
<b>Immunogen</b>	Synthesized peptide derived from human DOCK4 AA range: 533-583
<b>Specificity</b>	This antibody detects endogenous levels of DOCK4 at Human/Mouse
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1: 500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cell membrane . Cell projection . Cytoplasm, cytosol . Colocalizes with EPHA2, RHOG and CTTN/cortactin at the tip of protrusions in migrating cells. .
<b>Tissue Specificity</b>	Widely expressed at low level. Highly expressed in skeletal muscle, prostate and ovary. ; [Isoform 2]: May be specifically expressed in the brain and eye.
<b>Function</b>	disease:Defects in DOCK4 are involved in the cause of some cancers, which are probably due to lack of Rap1 activation.,domain:The DHR-2 domain probably mediates the GEF activity.,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.,miscellaneous:Injection of wild-type protein suppresses tumor invasion in osteosarcoma mouse cell lines while it is not the case with the Leu-1718 variant.,similarity:Belongs to the DOCK family.,similarity:Contains 1 DHR-1 (CZH-1) domain.,similarity:Contains 1 DHR-2 (CZH-2) domain.,similarity:Contains 1 SH3 domain.,subunit:Interacts with the SH3 domain of CRK. Interacts with nucleotide-free Rap1.,tissue specificity:Widely expressed at low level. Highly



expressed in skeletal muscle, prostate and ovary.,

**Background**

This gene is a member of the dedicator of cytokinesis (DOCK) family and encodes a protein with a DHR-1 (CZH-1) domain, a DHR-2 (CZH-2) domain and an SH3 domain. This membrane-associated, cytoplasmic protein functions as a guanine nucleotide exchange factor and is involved in regulation of adherens junctions between cells. Mutations in this gene have been associated with ovarian, prostate, glioma, and colorectal cancers. Alternatively spliced variants which encode different protein isoforms have been described, but only one has been fully characterized. [provided by RefSeq, Jul 2008],

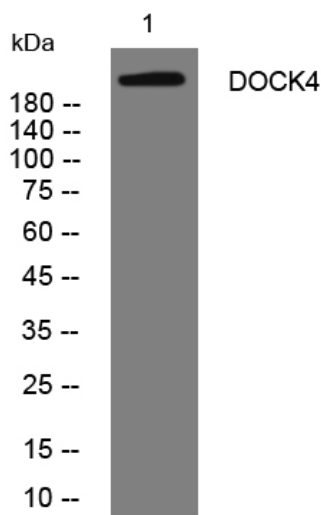
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western blot analysis of lysates from Jarkat cells, primary antibody was diluted at 1:1000, 4° over night