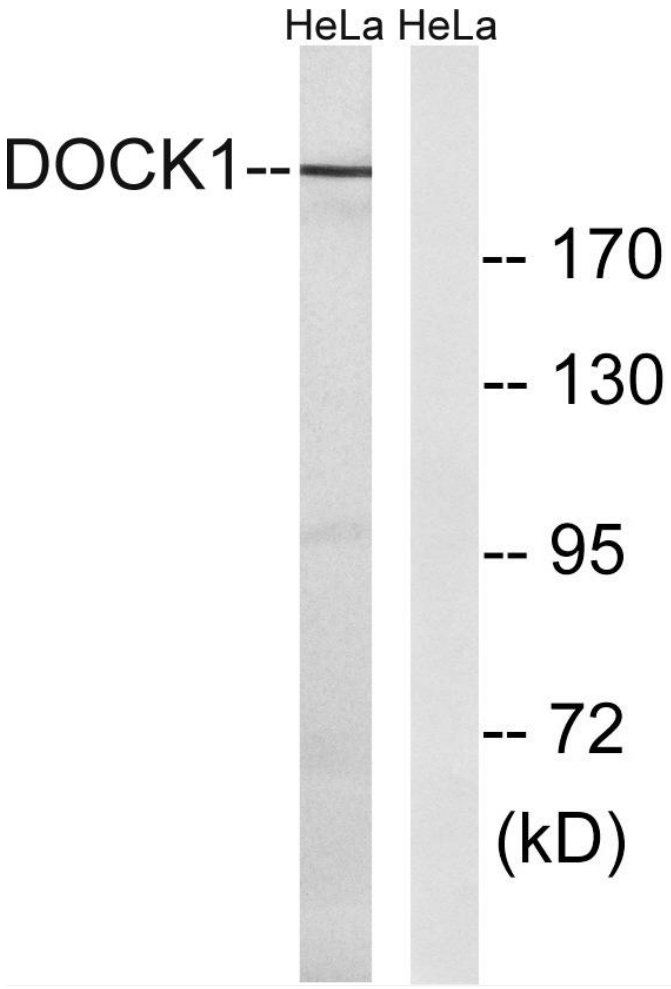
DOCK 180 Monoclonal Antibody

Catalog No	YP-mAb-03818
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	DOCK1
Protein Name	Dedicator of cytokinesis protein 1
Immunogen	The antiserum was produced against synthesized peptide derived from human DOCK1. AA range:1661-1710
Specificity	DOCK 180 Monoclonal Antibody detects endogenous levels of DOCK 180 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DOCK1; Dedicator of cytokinesis protein 1; 180 kDa protein downstream of CRK; DOCK180
Observed Band	215kD
Cell Pathway	Cytoplasm . Membrane . Recruited to membranes via its interaction with phosphatidylinositol 3,4,5-trisphosphate. .
Tissue Specificity	Highly expressed in placenta, lung, kidney, pancreas and ovary. Expressed at intermediate level in thymus, testes and colon.
Function	domain:The DHR-2 domain is necessary and sufficient for the GEF activity.,function:Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Functions as a guanine nucleotide exchange factor (GEF), which activates Rac Rho small GTPases by exchanging bound GDP for free GTP. Its GEF activity may be enhanced by ELMO1.,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.,subcellular location:Recruited to membranes via its interaction with phosphatidylinositol 3,4,5-triphosphate.,subunit:Interacts with the SH3 domains of CRK and NCK2 via multiple sites. Interacts with nucleotide-free RAC1 via its DHR-2 domain. Interacts with ELMO1, ELMO2 and probably ELMO3 via its SH3 domain. Interacts with RAC1 and BAI1.,tissue specificity:Highly expressed

Background	This gene encodes a member of the dedicator of cytokinesis protein family. Dedicator of cytokinesis proteins act as guanine nucleotide exchange factors for small Rho family G proteins. The encoded protein regulates the small GTPase Rac, thereby influencing several biological processes, including phagocytosis and cell migration. Overexpression of this gene has also been associated with certain cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014],
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 various cells using DOCK 180 Monoclonal Antibody