

For Research Use Only

DOCK4 Polyclonal antibody

Catalog Number: 21861-1-AP **3 Publications**



Basic Information

Catalog Number: 21861-1-AP	GenBank Accession Number: BC117689	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 550 µg/ml by Nanodrop and 340 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 9732	Recommended Dilutions: WB 1:150-1:600 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: dedicator of cytokinesis 4	IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG	Calculated MW: 2011 aa, 230 kDa	
Immunogen Catalog Number: AG16516	Observed MW: 225 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB : HEK-293 cells, HEK-293T cells
Cited Applications: IF, IHC, WB	IP : HeLa cells, HEK-293T cells
Species Specificity: human	IHC : human ovary tumor tissue, human breast cancer tissue, human prostate cancer tissue, human skeletal muscle tissue
Cited Species: human	IF : HeLa cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

DOCK4, originally identified as a product of a gene which is deleted during tumor progression, is a member of DOCK180 family proteins. Dock4 has been found recently to be associated with several neuropsychiatric diseases, including autism, dyslexia, and schizophrenia. Multiple studies in fibroblasts then confirmed that Dock4 is capable of controlling cell migration by transducing several upstream signals, such as Wnt, platelet-derived growth factor, and RhoG, toward activation of Rac1. Mutations in this gene have been associated with ovarian, prostate, glioma, and colorectal cancers.

Notable Publications

Author	Pubmed ID	Journal	Application
Yu Mei	34804930	Front Oncol	WB
Leah McNally	32576693	Proc Natl Acad Sci U S A	WB, IF
Suwei Zhu	33968925	Front Cell Dev Biol	WB, IHC

Storage

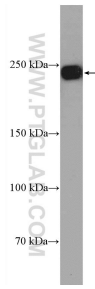
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

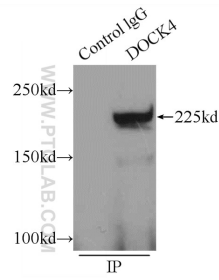
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

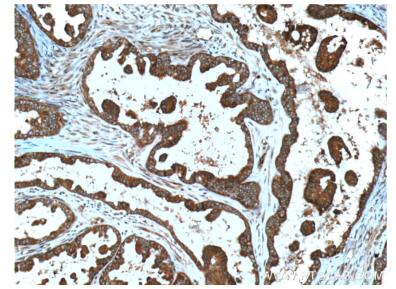
Selected Validation Data



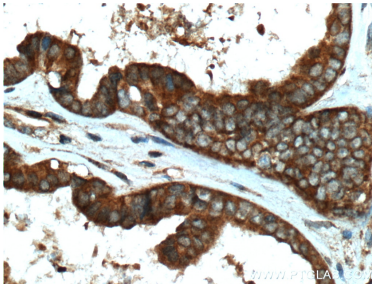
HEK-293 cells were subjected to SDS PAGE followed by western blot with 21861-1-AP (DOCK4 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



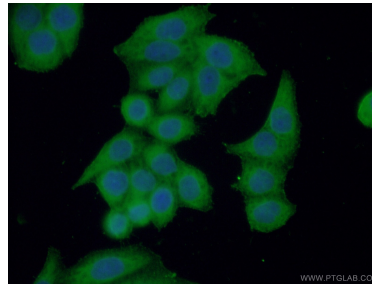
IP Result of anti-DOCK4 (IP:21861-1-AP, 5ug; Detection:21861-1-AP 1:500) with HeLa cells lysate 1800ug.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 21861-1-AP (DOCK4 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 21861-1-AP (DOCK4 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 21861-1-AP (DOCK4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).