For Research Use Only

DOCK4 Polyclonal antibody

Catalog Number:21861-1-AP 3 Publications

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Basic Information

Catalog Number:
21861-1-AP

Size:
550 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG16516

GenBank Accession Number:
BC117689

GeneID (NCBI):
9732

UNIPROT ID:
Q8N110

Full Name:
dedicator of cytokinesis 4

Calculated MW:
2011 aa, 230 kDa

Observed MW:
225 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:150-1:600
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
IF/ICC, IHC, IP, WB,ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human

Cited Species:
human

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

Positive Controls:

WB : HEK-293 cells, HEK-293T cells

IP : HeLa cells, HEK-293T cells

IHC : human ovary tumor tissue, human breast cancer tissue, human prostate cancer tissue, human skeletal muscle tissue

IF : HeLa cells,

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

For technical support and original validation data for this product please contact:
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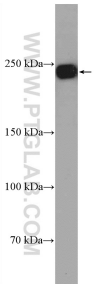
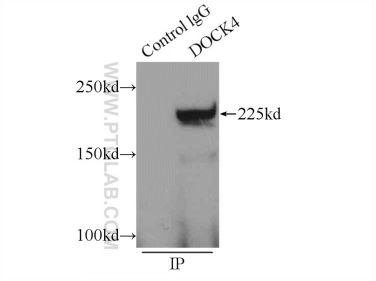
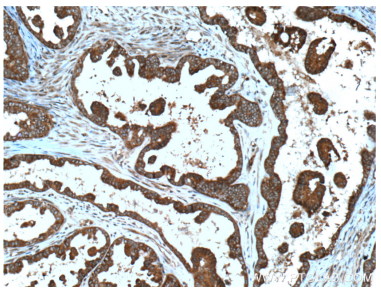
Selected Validation Data



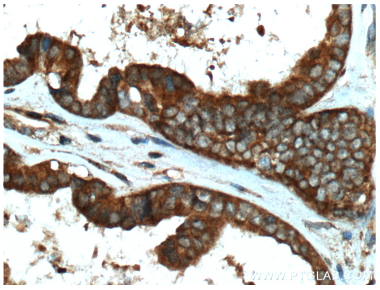
HEK-293 cells were subjected to SDS PAGE followed by western blot with 21861-1-AP (DOCK4 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



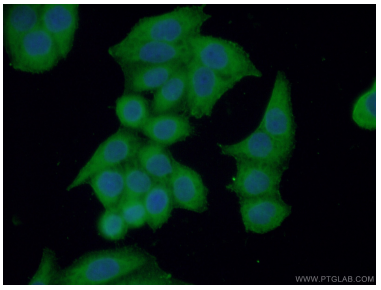
IP result of anti-DOCK4 (IP:21861-1-AP, 5ug; Detection:21861-1-AP 1:500) with HeLa cells lysate 1800ug.



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).