

DIAPH3 Polyclonal Antibody

Catalog number: 14342-1-AP

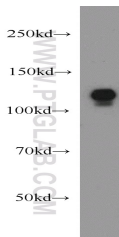
Size: 37 µg/150 µl

Source: Rabbit

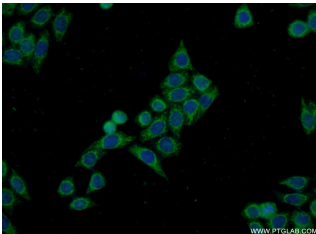
Isotype: IgG

Synonyms:

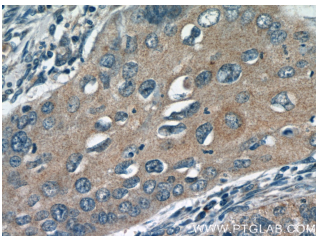
DIAPH3; diap3, DIAPH3,
Diaphanous related formin 3,
DKFZp434C0931,
DKFZp686A13178, DRF3,
FLJ34705, mDia2, Protein
diaphanous homolog 3



HeLa cells were subjected to SDS PAGE followed by western blot with 14342-1-AP(DIAPH3 antibody) at dilution of 1:1000



Immunofluorescent analysis of HeLa cells using 14342-1-AP(DIAPH3 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunohistochemistry of paraffin-embedded human cervical cancer tissue slide using 14342-1-AP(DIAPH3 Antibody) at dilution of 1:50

Background

DIAPH3 is also referred as diaphanous-related formin-3 which binds to GTP-bound form of Rho and to profilin, acts in a Rho-dependent manner to recruit profilin to the membrane. It is required for cytokinesis, stress fiber formation, and transcriptional activation of the serum response factor. Seven isoforms of DIAPH3 exist due to the alternative splicing. Recently it has been reported that dimerization and actin assembly activity of DIAPH3 isoforms 1 and 7 are essential for induction of specific cell protrusions. It may propose that isoform-selective actin assembly by DIAPH3 exerts specific and differentially regulated functions during cell adhesion and motility.

Applications

Tested applications:	ELISA, WB, IHC, IF
Cited applications:	IF, WB
Species specificity:	Human; other species not tested.
Cited species:	Human
Calculated DIAPH3 MW:	137 kDa
Observed DIAPH3 MW:	125-137kd
Positive WB detected in	HeLa cells, DU 145 cells, HEK-293 cells
Positive IHC detected in	Human cervical cancer tissue, human prostate cancer tissue
Positive IF detected in	HeLa cells
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag5656
GenBank accession number:	BC048963
Gene ID (NCBI):	81624
Full name:	Diaphanous homolog 3 (Drosophila)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.