

For Research Use Only

CoraLite® Plus 488-conjugated DAB2 Polyclonal antibody

Catalog Number: CL488-10109

Featured Product



Basic Information

Catalog Number:

CL488-10109

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0162

GenBank Accession Number:

BC003064

GeneID (NCBI):

1601

UNIPROT ID:

P98082

Full Name:

disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)

Calculated MW:

82 kDa

Observed MW:

96 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human

Positive Controls:

IF/ICC : HeLa cells,

Background Information

DAB2 is a protein of 770 amino acid residues with a predicted molecular weight of 85.5kDa. This gene was initially named DOC2 (for Differentially expressed in Ovarian Cancer) and is distinct from the DOC2A and DOC2B genes (for double C2-like domains, alpha and beta). Human DAB2 has an overall 83% identity with the mouse p96 protein, a putative mitogen-responsive phosphoprotein; homology is strongest in the amino-terminal end of the protein in a region corresponding to the phosphotyrosine interaction domain (PID), and contains multiple SH3 binding motifs. Chromosomal localization by FISH showed that the DAB2 gene is located on 5p13. The expression of DAB2 is down-regulated or absent in all the carcinoma cell lines examined, including prostate and ovarian carcinoma cell lines. The N-terminal domain of DAB2 interacts with Dishevelled-3 (Dvl-3), a signaling mediator of the Wnt pathway. Ectopic expression of DAB2 attenuates canonical Wnt/catenin-mediated signaling, including accumulation of catenin and cyclin D1 induction. DAB2 suppresses both protein kinase C and peptide growth factor-elicited signal pathways via the Ras-mitogen-activated protein kinase pathway. The proline-rich domain of DAB2 also interacts with proteins containing SH3 domain, such as Src and Fgr. The binding of DAB2 to c-Src results in the inactivation of c-Src. All data suggest that DAB2 is a potent tumor suppressor in many cancer types.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

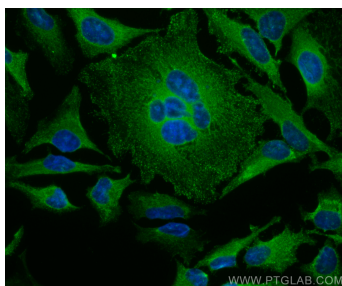
For technical support and original validation data for this product please contact:

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



Immunofluorescent analysis of (-20°C Ethanol)
fixed HeLa cells using CoraLite® Plus 488 DAB2
antibody (CL488-10109) at dilution of 1:200.