

DAB2 Recombinant antibody

Catalog Number: 86141-1-RR

Basic Information

Catalog Number: 86141-1-RR	GenBank Accession Number: BC003064	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1601	CloneNo.: 250409B4
Source: Rabbit	UNIPROT ID: P98082	Recommended Dilutions: WB: 1:2000-1:10000
Isotype: IgG	Full Name: disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	
Immunogen Catalog Number: AG0162	Calculated MW: 82 kDa	
	Observed MW: 96 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : HeLa cells, Caco-2 cells, A172 cells, RAW 264.7 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

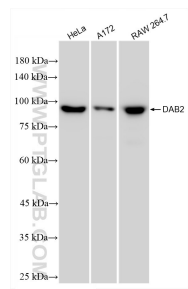
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

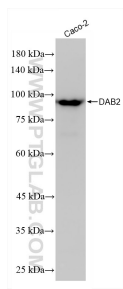
For technical support and original validation data for this product please contact:
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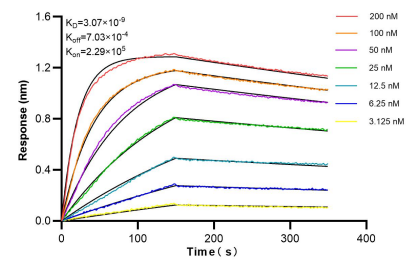
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86141-1-RR (DAB2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Caco-2 cells were subjected to SDS PAGE followed by western blot with 86141-1-RR (DAB2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86141-1-RR against Human DAB2 were performed. The affinity constant is 3.07 nM.