

Rabbit Anti-phospho-DAB2 (Ser24) antibody

SL11044R

Product Name:	phospho-DAB2 (Ser24)			
Chinese Name:	磷酸化Signal transduction功能磷蛋白DAB2抗体			
Alias:	p-Dab2(Ser24); DAB 2; DAB-2; Differentially expressed protein 2; Disabled (Drosophila) homolog 2 (mitogen responsive phosphoprotein); disabled (Drosophila) homolog 2 (mitogen-responsive phosphoprotein); Disabled homolog 2; Disabled			
	homolog 2 mitogen responsive phosphoprotein (Drosophila); Disabled homolog 2 mitogen responsive phosphoprotein; disabled homolog 2 mitogen-responsive phosphoprotein (Drosophila); DOC 2; DOC2; FLJ26626; Mitogen responsive phosphoprotein; DAB2 HUMAN.			
Organism Species:	Rabbit			
Clonality:	Polyclonal			
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,			
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100- 500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.			
Molecular weight:	85kDa			
Cellular localization:	cytoplasmicThe cell membrane			
Form:	Lyophilized or Liquid			
Concentration:	lmg/ml			
immunogen:	KLH conjugated synthesised phosphopeptide derived from human DAB2 around the phosphorylation site of Ser24:AP(p-S)KK			
Lsotype:	IgG			
Purification:	affinity purified by Protein A			
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.			
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.			

PubMed:	PubMed
	DAB2 is a component of the CSF1 signal transduction pathway. DAB2 mRNA is expressed in normal ovarian epithelial cells but is down regulated or absent from ovarian carcinoma cell lines. The down regulation of DAB2 may play an important role in ovarian carcinogenesis. 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).
Product Detail:	Function: Adapter protein that functions as clathrin-associated sorting protein (CLASP) required for clathrin-mediated endocytosis of selected cargo proteins. Can bind and assemble clathrin, and binds simultaneously to phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) and cargos containg non-phosphorylated NPXY internalization motifs, such as the LDL receptor, to recruit them to clathrin-coated pits. Can function in clathrin-mediated endocytosis independently of the AP-2 complex. Involved in endocytosis of integrin beta-1; this function seems to redundant with the AP-2 complex and seems to require DAB2 binding to endocytosis accessory EH domain-containing proteins such as EPS15, EPS151.1 and TTSN1. Involved in endocytosis of such as the TGF-beta receptor during embryonal development. Required for recycling of the TGF-beta receptor. Involved in CFTR trafficking to the late endosome. Involved in several receptor-mediated signaling pathways. Involved in TGF-beta receptor signaling and facilitates phosphorylation of the signal transducer SMAD2. Mediates TFG-beta-stimulated JNK activation. May inhibit the canonical Wnt/beta- catenin signaling and facilitates phosphorylation of the signal transducer SMAD2. Involved in several receptor-mediated signaling, May activate non-canonical Wnt signaling. In cell surface growth factor/Ras signaling, May activate non-canonical Wnt signaling. In cell surface growth factor/Ras signaling pathways proposed to inhibit SRC by preventing its activating phosphorylation at Tyr-419. Proposed to be involved in modulation of androgen receptor (AR) signaling mediated by SRC activation; seems to compete with AR for interaction with SRC. Plays a role in the CSF-1 signal transduction pathway. Plays a role in cellular differentiation. Involved in cell positioning and formation of visceral endoderm (VE) during embryogenesis and proposed to be required in the VE to respond to Nodal signaling coming from the epiblast. Required for the epithelial to mesenchymal transition, a process necessary f
	Subunit: Can interact (via PID domain) with LDLR, APP, APLP1 and APLP2, and weakly with INPP5D (via NPXY motifs); the interaction is impaired by tyrosine phosphorylation of the respective NPXY motifs. Can weakly interact (via PID domain) with LRP1 (via NPXY motif); the interaction is enhanced by tyrosine phosphorylation of the NPXY motif. Interacts with LRP2 (via NPXY motif); the interaction is not affected by tyrosine

phosphorylation of the NPXY motif. Interacts with clathrin; in vitro can assemble clathrin triskelia into polyhedral coats. Interacts with AP2A2, ITGB1, ITGB3, ITGB5, PIAS2, DAB2IP, NOSTRIN, FCHO1, DVL3, EPS15, ITSN1 and EPS15L1. Interacts with SH3KBP1 (via SH3 domains). Interacts with GRB2; competes with SOS1 for binding to GRB2 and the interaction is enhanced by EGF and NT-3 stimulation. Interacts with MAP3K7; the interaction is induced by TGF-beta stimulation and may mediate TGF-beta stimulated JNK activation. Interacts with AXIN1 and PPP1CA; the interactions are mutually exclusive. Interacts with the globular tail of MYO6. Interacts (via DPF motifs) with FCHO2; the interaction is direct and required for DAB2mediated LDLR endocytosis. Interacts with LRP6; the interaction involves LRP6 phosphorylation by CK2 and sequesters LRP6 towards clathrin-mediated endocytosis. Associates with the TGF-beta receptor complex (Probable). Interacts with SMAD2 and SMAD3; the interaction is enhanced by EGF and NT-3 stimulation. Interacts with SRC; the interaction is enhanced by EGF stimulation.

Subcellular Location:

Cytoplasmic vesicle; clathrin coated vesicle; clathrin coated vesicle membrane. Cell membrane; coated pit; clathrin coated pit. Note: Colocalizes with large insert containing isoforms of MYO6 at clathrin coated pits/vesicles.

Tissue Specificity:

Expressed in deep invaginations, inclusion cysts and the surface epithelial cells of the ovary. Also expressed in breast epithelial cells, spleen, thymus, prostate, testis, macrophages, fibroblasts, lung epithelial cells, placenta, brain stem, heart and small intestine. Expressed in kidney proximal tubular epithelial cells (at protein level).

Post-translational modifications:

Phosphorylated. Phosphorylation during mitosis is leading to membrane displacement (By similarity).

Similarity:

Contains 1 PID domain.

SWISS: P98082

Gene ID:

1601

Database links:

Entrez Gene: 1601Human

Omim: 601236Human

SwissProt: P98082Human

	Unigene: 696631Human	
	Important Note:	
	This product as supplied is intended for research use only, not for use in human,	
	therapeutic or diagnostic applications.	

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