

Allgemeine Informationen

Katalog-Nr.: 10109-2-AP	GenBank-Zugangsnummer: BC003064	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 150ul, Konzentration: 600 µg/ml von Nanodrop und 367 µg/ml durch die Bradford-Methode mit BSA als Standard;	GeneID (NCBI): 1601	Empfohlene Verdünnungen: WB 1:1000-1:6000 IP 0.5-4.0 µg für IP und 1:1000-1:4000 für WB
Wirt: Kaninchen	Vollständiger Name: disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)	IHC 1:50-1:500 IF 1:50-1:500
Isotyp: IgG	Berechnete Masse: 82 kDa	
Immunogen Katalognummer: AG0162	Beobachtete Masse: 96 kDa	

Anwendungen

Geprüfte Anwendungen: FC, IF, IHC, IP, WB, ELISA	Positivkontrollen: WB : HeLa-Zellen, MCF-7-Zellen
In Publikationen genannte Anwendungen: IF, IHC, IP, WB	IP : HeLa-Zellen,
Getestete Reaktivität: Human	IHC : humanes Nierengewebe,
Zitierte Arten: Huhn, Human	IF : HeLa-Zellen,

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Hintergrundinformationen

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.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Minxia Zuo	36330072	J Diabetes Res	WB
Akira Honda	30061390	Proc Natl Acad Sci U S A	IP
María D Vazquez-Carretero	32617970	J Cell Physiol	IF

Lagerung

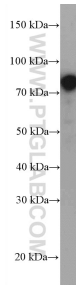
Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
 Aliquotieren ist nicht notwendig bei -20°C Lagerung

***** 20ul-Größen enthalten 0.1% BSA**

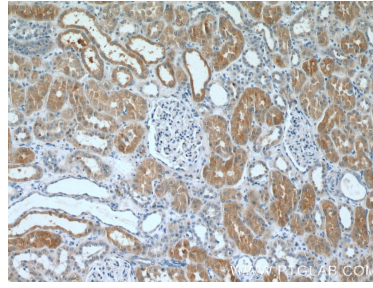
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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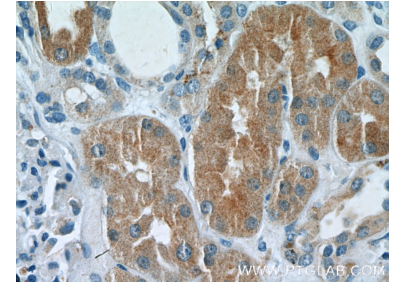
Ausgewählte Validierungsdaten



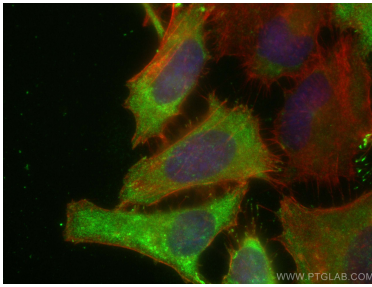
HeLa cells were subjected to SDS PAGE followed by western blot with 10109-2-AP (DAB2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



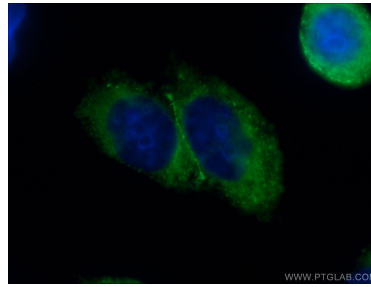
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 10109-2-AP (DAB2 Antibody) at dilution of 1:200 (under 10x lens).



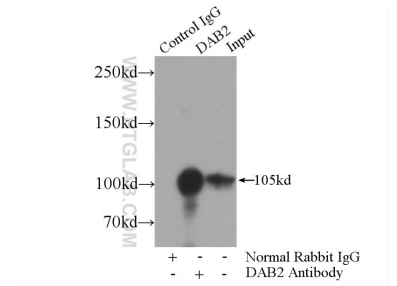
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 10109-2-AP (DAB2 Antibody) at dilution of 1:200 (under 40x lens).



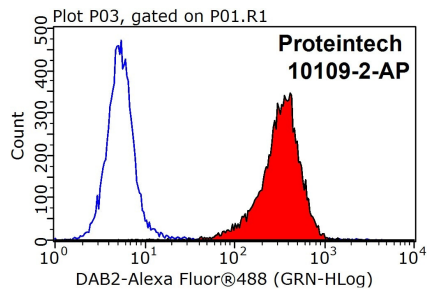
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using DAB2 antibody (10109-2-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 10109-2-AP (DAB2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-DAB2 (IP:10109-2-AP, 4ug; Detection:10109-2-AP 1:2000) with HeLa cells lysate 4000ug.



1X10⁶ HepG2 cells were stained with 0.2ug DAB2 antibody (10109-2-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.