For Research Use Only

SPRED2 Polyclonal antibody

Catalog Number:24091-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
24091-1-AP

Size:
350 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG21359

GenBank Accession Number:
BC136334

GeneID (NCBI):
200734

UNIPROT ID:
Q7Z698

Full Name:
sprouty-related, EVH1 domain containing 2

Calculated MW:
418 aa, 48 kDa

Observed MW:
40-48 kDa

Purification Method:
Antigen Affinity purified

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : PC-12 cells, MCF-7 cells, mouse testis tissue, mouse brain tissue, rat brain tissue, T-47D cells, rat testis tissue

IHC : rat testis tissue, human testis tissue

IF/ICC : HeLa cells,

Background Information

SPRED2 is a member of the SPRED family of proteins that modulate GFR signaling by inhibiting the Ras-MAPK cascade (PMID: 17094949). SPRED family members are characterized by an N-terminal Enabled/VASP homology 1 domain (EVH1), a central c-Kit binding domain (KBD) and a C-terminal Sprouty-related domain (SPR) (PMID: 17691106). Three mammalian SPREDs (SPRED1-3) have been described. In adult tissues, SPRED2 is expressed ubiquitously, but most highly expressed in glandular epithelia (PMID: 15580519; 17691106). Reduced expression level of SPRED2 has been reported in human hepatocellular carcinoma (HCC), suggesting SPRED2 may play a role in tumorgenesis (PMID: 16652141). Gene disruption of SPRED2 causes dwarfism (PMID: 15946934).

Notable Publications

Author	Pubmed ID	Journal	Application
Shinsuke Oda	34818323	PLoS One	IHC
Hiroyasu Sakai	35908904	Biol Pharm Bull	WB
Yoko Ota	39580880	Pathol Res Pract	WB,IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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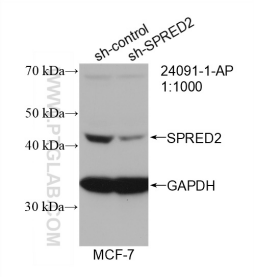
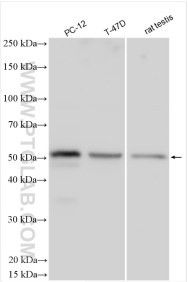
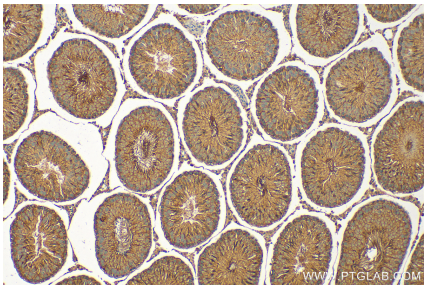
Selected Validation Data



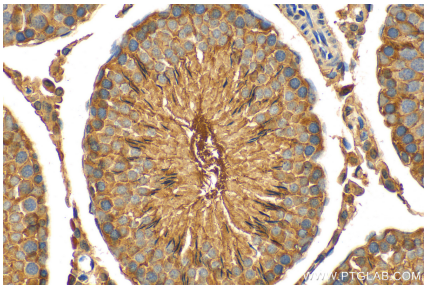
WB result of SPRED2 antibody (24091-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SPRED2 transfected MCF-7 cells.



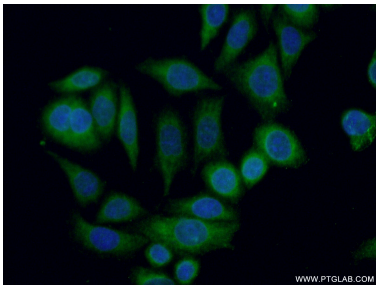
Various lysates were subjected to SDS PAGE followed by western blot with 24091-1-AP (SPRED2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 24091-1-AP (SPRED2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 24091-1-AP (SPRED2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20℃ Ethanol) fixed HeLa cells using 24091-1-AP (SPRED2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).