10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Phospho-SPRY4(Y75) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3585a

Specification

Phospho-SPRY4(Y75) Antibody - Product Information

Application	**DB,E**
Primary Accession	Q9C004
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Phospho-SPRY4(Y75) Antibody - Additional Information

Gene ID 81848

Other Names
Protein sprouty homolog 4, Spry-4, SPRY4

Target/Specificity
This SPRY4 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y75 of human SPRY4.

Dilution
DB~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-SPRY4(Y75) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-SPRY4(Y75) Antibody - Protein Information

Name SPRY4

Function Suppresses the insulin receptor and EGFR-transduced MAPK signaling pathway, but does not inhibit MAPK activation by a constitutively active mutant Ras (PubMed:12027893). Probably impairs the formation of GTP-Ras (PubMed:12027893). Inhibits Ras-independent, but not Ras-dependent, activation of RAF1 (PubMed:12717443). Represses integrin-mediated cell spreading via inhibition of TESK1-mediated phosphorylation of cofilin (PubMed:15584898).

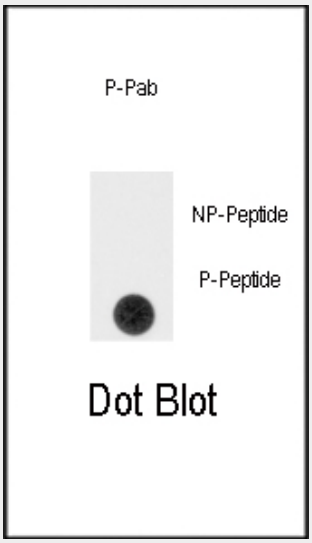
Cellular Location
Cytoplasm. Cell projection, ruffle membrane; Peripheral membrane protein; Cytoplasmic side. Note=Found in the cytoplasm in unstimulated cells but is translocated to the membrane ruffles in cells stimulated with EGF (epidermal growth factor) (By similarity). Colocalizes with TESK1 in vesicular spots in the cytoplasm (PubMed:15584898) {ECO:0000250|UniProtKB:Q9WTP2, ECO:0000269|PubMed:15584898}

Phospho-SPRY4(Y75) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-SPRY4(Y75) Antibody - Images



Dot blot analysis of anti-Phospho-SPRY4-pY75 Antibody (Cat.#AP3585a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Phospho-SPRY4(Y75) Antibody - Background

SPRY4 is an inhibitor of the receptor-transduced mitogen-activated protein kinase (MAPK) signaling pathway. It is positioned upstream of RAS activation and impairs the formation of active GTP-RAS.

Phospho-SPRY4(Y75) Antibody - References

Tsai CF, et al. (2008) J Proteome Res
Guo A, et al. (2008) Proc Natl Acad Sci U S A 105, 692-7
Rikova K, et al. (2007) Cell 131, 1190-203
Wolf-Yadlin A, Hautaniemi S, Lauffenburger DA, White FM (2007) Proc Natl Acad Sci U S A 104,

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Tsumura Y, et al. (2005) Biochem J 387, 627-37