

**Phospho-SPRY4(Y75) Antibody Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP3585a****Specification**

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**Phospho-SPRY4(Y75) Antibody Blocking peptide - Product Information**Primary Accession [O9C004](#)**Phospho-SPRY4(Y75) Antibody Blocking peptide - Additional Information****Gene ID** 81848**Other Names**

Protein sprouty homolog 4, Spry-4, SPRY4

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP3585a](/products/AP3585a) was selected from the region of human Phospho-SPRY4-pY75. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Phospho-SPRY4(Y75) Antibody Blocking peptide - 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](http://www.uniprot.org/citations/12027893)). Probably impairs the formation of GTP-Ras (PubMed: [12027893](http://www.uniprot.org/citations/12027893)). Inhibits Ras-independent, but not Ras-dependent, activation of RAF1 (PubMed: [12717443](http://www.uniprot.org/citations/12717443)). Represses integrin-mediated cell spreading via inhibition of TESK1-mediated phosphorylation of cofilin (PubMed: [15584898](http://www.uniprot.org/citations/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 Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **Phospho-SPRY4(Y75) Antibody Blocking peptide - Images**

### **Phospho-SPRY4(Y75) Antibody Blocking peptide - 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 Blocking peptide - References**

Tsai CF, et al. (2008) J Proteome ResGuo A, et al. (2008) Proc Natl Acad Sci U S A 105, 692-7Rikova K, et al. (2007) Cell 131, 1190-203Wolf-Yadlin A, Hautaniemi S, Lauffenburger DA, White FM (2007) Proc Natl Acad Sci U S A 104, 5860-5Tsumura Y, et al. (2005) Biochem J 387, 627-37