



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## SOS1 monoclonal antibody (M01), clone 4C1

Catalog # : H00006654-M01

規格 : [ 100 ug ]

[List All](#)

### Specification

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant SOS1.

**Immunogen:** SOS1 (NP\_005624, 313 a.a. ~ 420 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:** SQLSKPGAALYLQSIGEGFKEAVQYVLPRLLLAPVYHCLHYFELLKQLEE  
KSEDQEDKECLKQAITALLNVQSGMEKICSKSLAKRRLSESACRFYSQQ  
MKGKQLAIK

**Host:** Mouse

**Reactivity:** Human

**Isotype:** IgG2a Kappa

**Quality Control Testing:** Antibody Reactive Against Recombinant Protein.

**Storage Buffer:** In 1x PBS, pH 7.4

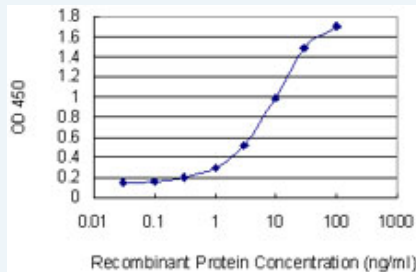
**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**MSDS:**  [Download](#)


**Datasheet:**  [Download](#)

### Applications

#### Sandwich ELISA (Recombinant protein)



Detection limit for recombinant GST tagged SOS1 is 0.1 ng/ml as a capture antibody.

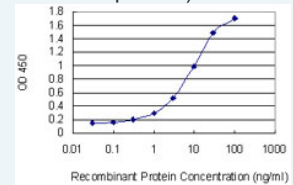
 [Protocol Download](#)


#### ELISA

#### *In situ* Proximity Ligation Assay (Cell)

### Application Image

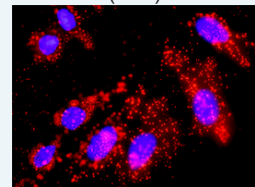
#### Sandwich ELISA (Recombinant protein)



 [enlarge](#)

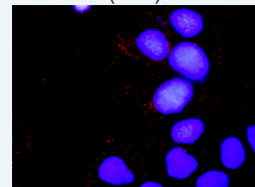
#### ELISA

#### *In situ* Proximity Ligation Assay (Cell)



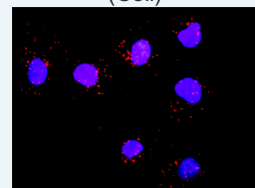
 [enlarge](#)


#### *In situ* Proximity Ligation Assay (Cell)

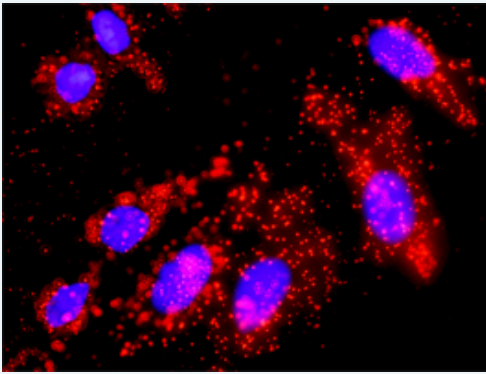


 [enlarge](#)

#### *In situ* Proximity Ligation Assay (Cell)



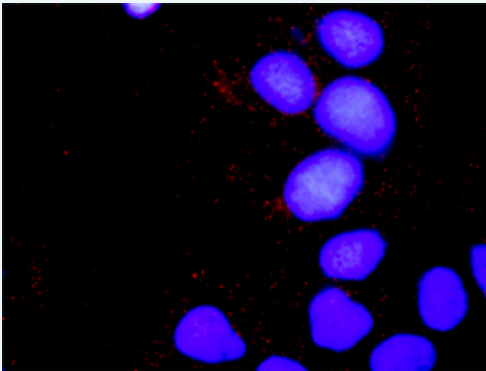
 [enlarge](#)



Proximity Ligation Analysis of protein-protein interactions between FGFR1 and SOS1. HeLa cells were stained with anti-FGFR1 rabbit purified polyclonal 1:1200 and anti-SOS1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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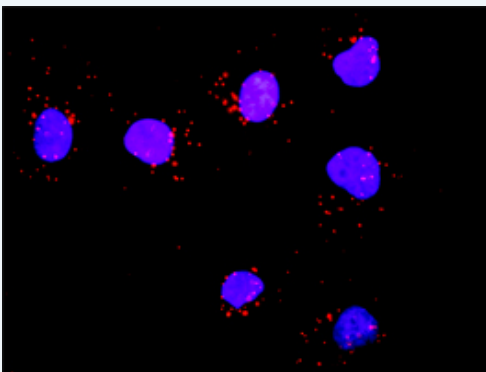
#### ***In situ* Proximity Ligation Assay (Cell)**



Proximity Ligation Analysis of protein-protein interactions between CRKL and SOS1. Huh7 cells were stained with anti-CRKL rabbit purified polyclonal 1:1200 and anti-SOS1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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#### ***In situ* Proximity Ligation Assay (Cell)**



Proximity Ligation Analysis of protein-protein interactions between GAB1 and SOS1. Mahlavu cells were stained with anti-GAB1 rabbit purified polyclonal 1:1200 and anti-SOS1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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#### **Gene Information**

**Entrez GeneID:** [6654](#)

**GeneBank  
Accession#:** [NM\\_005633](#)

**Protein  
Accession#:** [NP\\_005624](#)

**Gene Name:** SOS1

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**Gene Alias:** GF1,GGF1,GINGF,HGF,NS4

**Gene Description:** son of sevenless homolog 1 (Drosophila)

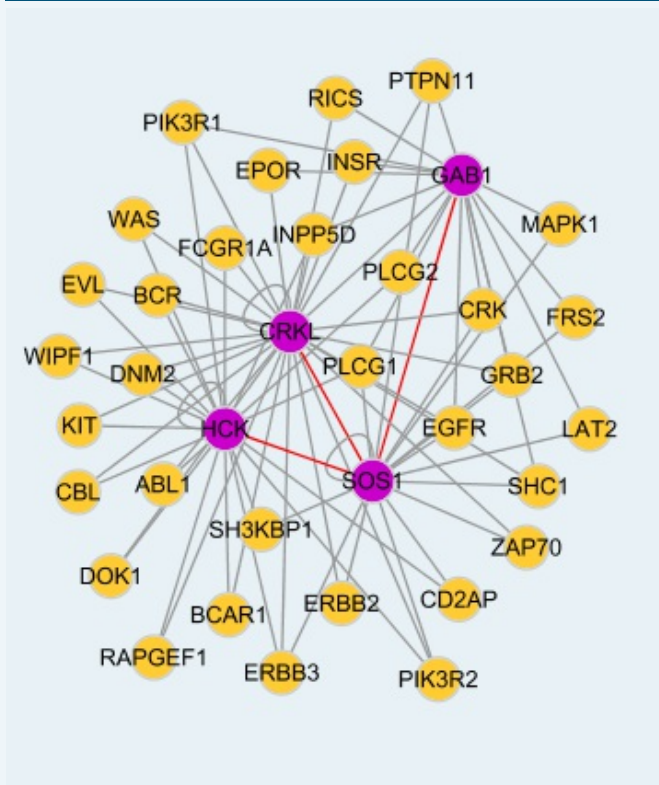
**Omim ID:** [135300](#), [182530](#), [610733](#)

**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** This gene encodes a protein that is a guanine nucleotide exchange factor for RAS proteins, membrane proteins that bind guanine nucleotides and participate in signal transduction pathways. GTP binding activates and GTP hydrolysis inactivates RAS proteins. The product of this gene may regulate RAS proteins by facilitating the exchange of GTP for GDP. Mutations in this gene are associated with gingival fibromatosis 1 and Noonan syndrome type 4. [provided by RefSeq]

**Other Designations:** OTTHUMP00000128306,gingival fibromatosis, hereditary, 1,guanine nucleotide exchange factor,son of sevenless homolog 1

### Interactome



### Gene Pathway

[Acute myeloid leukemia B cell receptor signaling pathway](#) [Chemokine signaling pathway](#)  
[Chronic myeloid leukemia](#) [Colorectal cancer](#) [Dorso-ventral axis formation](#)  
[Endometrial cancer](#) [ErbB signaling pathway](#) [Fc epsilon RI signaling pathway](#)  
[Focal adhesion](#) [Gap junction](#) [Glioma](#) [GnRH signaling pathway](#) [Insulin signaling pathway](#)  
[Jak-STAT signaling pathway](#) [MAPK signaling pathway](#)  
[Natural killer cell mediated cytotoxicity](#) [Neurotrophin signaling pathway](#)  
[Non-small cell lung cancer](#) [Pathways in cancer](#) [Prostate cancer](#)  
[Regulation of actin cytoskeleton](#) [Renal cell carcinoma](#) [T cell receptor signaling pathway](#)

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