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

# PSIP1 Antibody
**Purified Mouse Monoclonal Antibody**
**Catalog # AO1504a**

## Specification

## PSIP1 Antibody - Product Information

| | |
|---|---|
| Application | **E, WB, IHC, IF** |
| Primary Accession | O75475 |
| Reactivity | **Human, Rat, Monkey** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG1** |
| Calculated MW | **75kDa KDa** |

**Description**
Transcriptional coactivator involved in neuroepithelial stem cell differentiation and neurogenesis. Involved in particular in lens epithelial cell gene regulation and stress responses. May play an important role in lens epithelial to fiber cell terminal differentiation. May play a protective role during stress-induced apoptosis. Isoform 2 is a more general and stronger transcriptional coactivator. Isoform 2 may also act as an adapter to coordinate pre-mRNA splicing. Cellular cofactor for lentiviral integration. Tissue specificity: Widely expressed. Expressed at high level in the thymus. Expressed in fetal and adult brain. Expressed in neurons, but not astrocytes. Markedly elevated in fetal as compared to adult brain. In the adult brain, expressed in the subventricular zone (SVZ), in hippocampus, and undetectable elsewhere. In the fetal brain, expressed in the germinal neuroepithelium and cortical plate regions.

**Immunogen**
Purified recombinant fragment of human PSIP1 expressed in E. Coli.

**Formulation**
Ascitic fluid containing 0.03% sodium azide.

## PSIP1 Antibody - Additional Information

**Gene ID** 11168

**Other Names**
PC4 and SFRS1-interacting protein, CLL-associated antigen KW-7, Dense fine speckles 70 kDa protein, DFS 70, Lens epithelium-derived growth factor, Transcriptional coactivator p75/p52, PSIP1, DFS70, LEDGF, PSIP2

**Dilution**
E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
IF~~1/200 - 1/1000

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
PSIP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## PSIP1 Antibody - Protein Information

**Name** PSIP1

**Synonyms** DFS70, LEDGF, PSIP2

**Function**
Transcriptional coactivator involved in neuroepithelial stem cell differentiation and neurogenesis. Involved in particular in lens epithelial cell gene regulation and stress responses. May play an important role in lens epithelial to fiber cell terminal differentiation. May play a protective role during stress-induced apoptosis. Isoform 2 is a more general and stronger transcriptional coactivator. Isoform 2 may also act as an adapter to coordinate pre- mRNA splicing. Cellular cofactor for lentiviral integration.

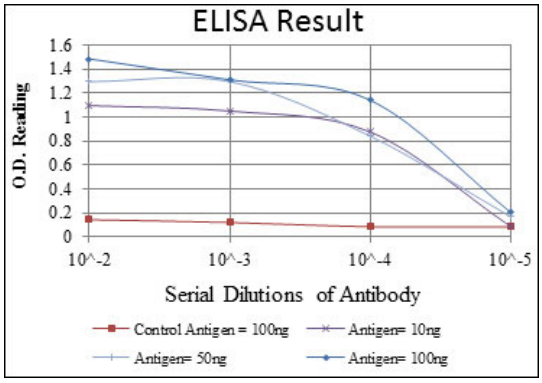
**Cellular Location**
Nucleus. Note=Remains chromatin-associated throughout the cell cycle

**Tissue Location**
Widely expressed. Expressed at high level in the thymus. Expressed in fetal and adult brain. Expressed in neurons, but not astrocytes. Markedly elevated in fetal as compared to adult brain In the adult brain, expressed in the subventricular zone (SVZ), in hippocampus, and undetectable elsewhere. In the fetal brain, expressed in the germinal neuroepithelium and cortical plate regions

## PSIP1 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



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

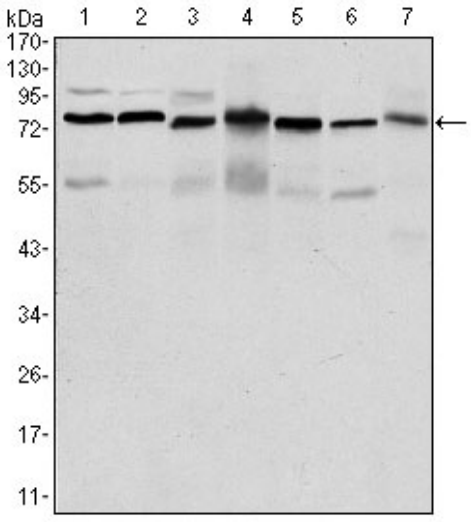



Figure 1: Western blot analysis using PSIP1 mouse mAb against HepG2 (1), Jurkat (2), K562 (3), Cos7 (4), PC-12 (5), Hela (6), and NIH/3T3 (7) cell lysate.

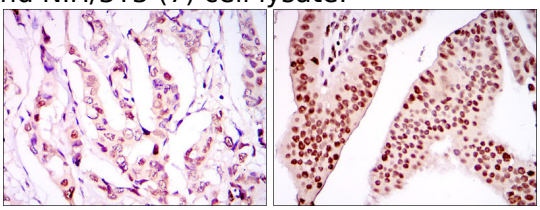


Figure 2: Immunohistochemical analysis of paraffin-embedded breast cancer tissues (left) and ovarian cancer tissues (right) using PSIP1 mouse mAb with DAB staining.

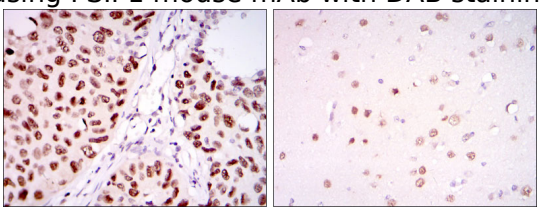


Figure 3: Immunohistochemical analysis of paraffin-embedded lung cancer tissues (left) and brain tissues (right) using PSIP1 mouse mAb with DAB staining.

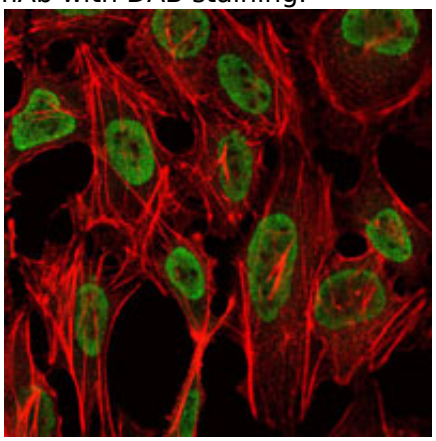


Figure 4: Immunofluorescence analysis of NIH/3T3 cells using PSIP1 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

## PSIP1 Antibody - References

1. J Virol. 2008 Dec;82(23):11555-67. 2. Proteins. 2008 Aug;72(2):635-45.

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