

## Product datasheet

# Recombinant Human PSIP1/LEDGF protein ab82128

### Description

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<b>Product name</b>	Recombinant Human PSIP1/LEDGF protein
<b>Purity</b>	> 95 % SDS-PAGE. Purified by affinity chromatography in combination with FPLC chromatography.
<b>Expression system</b>	Escherichia coli
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Additional sequence information</b>	The amino acid sequence for ab82128 corresponds to isoform 1 of the protein, which is also known as p75 and PSIP1. Accession number NM_033222.

### Specifications

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Our **Abpromise guarantee** covers the use of **ab82128** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Gel Supershift Assays EMSA
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as PSIP1

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.9 Constituents: 0.75% Potassium chloride, 0.0154% DTT, 0.316% Tris HCl, 0.00584% EDTA, 20% Glycerol (glycerin, glycerine)
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### General Info

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<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Involvement in disease</b>	Note=A chromosomal aberration involving PSIP1 is associated with pediatric acute myeloid leukemia (AML) with intermediate characteristics between M2-M3 French-American-British (FAB) subtypes. Translocation t(9;11)(p22;p15) with NUP98. The chimeric transcript is an in-frame fusion of NUP98 exon 8 to PSIP1/LEDGF exon 4.
<b>Sequence similarities</b>	Belongs to the HDGF family. Contains 1 PWWP domain.
<b>Domain</b>	Residues 340-417 are necessary and sufficient for the interaction with HIV-1 IN (IBD domain).
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Nucleus. Remains chromatin-associated throughout the cell cycle.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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