

Mouse LEDGF Monoclonal Antibody | anti-LEDGF antibody

LEDGF Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320139	Mouse	Human, Rat, Monkey	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

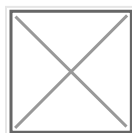
PRODUCT SYNONYMS

LEDGF; Monoclonal Antibody; LEDGF Monoclonal Antibody; PC4 and SFRS1-interacting protein; PSIP1; DFS70; PSIP2; CLL-associated antigen KW-7; Dense fine speckles 70 kDa protein; DFS 70; Lens epithelium-derived growth factor; Transcriptional coactivator p75/p52; anti-LEDGF antibody

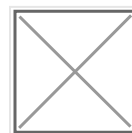
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Monkey
Clonality	Monoclonal
Specificity	LEDGF Monoclonal Antibody detects endogenous levels of LEDGF protein.
Purity/Purification	Affinity purification
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Applicable Applications for anti-LEDGF antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Purified recombinant fragment of human LEDGF expressed in E coli.
Modification	Unmodified/Total
Disease	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.
Domain	Residues 340-417 are necessary and sufficient for the interaction with HIV-1 IN (IBD domain).
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.
PTM	Phosphorylated upon DNA damage, probably by ATM or ATR. Belongs to the HDGF family. Contains 1 PWWP domain.
Subcellular Location	Remains chromatin-associated throughout the cell cycle.
Subunit	Monomer. Interacts with IFRD1/PC4. Isoform 2 interacts with SFRS1. Isoform 1 interacts with lentiviral integrase and acts as a chromatin tethering factor to the chromosomal DNA. Isoform 1 interacts in particular with the human HIV-1 integrase protein (HIV-1 IN), determining its nuclear localization, its tight association with chromatin and its protection from the proteasome. Isoform 1 interacts also with HIV-2 IN. Isoform 2 does not interact with HIV-1 IN.
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.

IMAGES

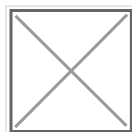


Application Data



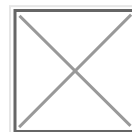
IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 cells using LEDGF Monoclonal Antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded breast cancer tissues (left) and ovarian cancer tissues (right) with DAB staining using LEDGF Monoclonal Antibody.



WB (Western Blot)

Western Blot analysis using LEDGF Monoclonal Antibody against HepG2 (1). Jurkat (2). K562 (3). Cos7 (4). PC-12 (5). HeLa (6). and NIH/3T3 (7) cell lysate.

ADDITIONAL INFORMATION

Product Categories/Family for anti-LEDGF antibody

Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	190014588
NCBI GeneID	11168
NCBI Accession #	NP_001121689.1
NCBI GenBank Nucleotide #	NM_001128217.2
UniProt Accession #	O75475; O00256; O95368; Q6P391; Q86YB9; Q9NZI3; Q9UER6; D3DRI9
Molecular Weight	37,268 Da
NCBI Official Full Name	PC4 and SFRS1-interacting protein isoform 2
NCBI Official Synonym Full Names	PC4 and SFRS1 interacting protein 1
NCBI Official Symbol	PSIP1
NCBI Official Synonym Symbols	p52; p75; PAIP; DFS70; LEDGF; PSIP2
NCBI Protein Information	PC4 and SFRS1-interacting protein
UniProt Protein Name	PC4 and SFRS1-interacting protein
UniProt Gene Name	PSIP1
UniProt Synonym Gene Names	DFS70; LEDGF; PSIP2; DFS 70
UniProt Entry Name	PSIP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.