

Datasheet for ABIN968640

anti-PSIP1 antibody (AA 85-188)**2** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	PSIP1
Binding Specificity:	AA 85-188
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PSIP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), BioImaging (BI)

Product Details

Immunogen:	Human LEDGF aa. 85-188
Clone:	26-LEDGF
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	PSIP1
Alternative Name:	LEDGF (PSIP1 Products)
Background:	<p>P52/p75 proteins were first identified through their interaction with transcriptional factors and splicing factors. p75 is encoded by exons 1-15 and contains 530 amino acids, while the alternatively spliced p52 is encoded by exons 1-9 and contains 333 amino acids. Both p52 and p75 have strong interactions with the VP16 activation domain and with various components of the general transcriptional machinery. p52 is the more active transcription activator and has also been shown to recruit the pre-mRNA splicing factor ASF/SF to sites of active transcription. Interestingly, p52/p75 has also been identified as Lens Epithelium-Derived Growth Factor (LEDGF). In serum free media, LEDGF stimulates the growth and survival of a variety of cells, such as lens epithelial cells, retinal photoreceptor cells, COS7 cells, skin fibroblasts, and keratinocytes. In retinal photoreceptor cells, LEDGF is found in the nucleus where it promotes resistance to serum starvation and thermal stress. Thus, the LEDGF gene encodes splice variants that may regulate gene transcription and mRNA splicing of a variety of proteins that are essential for cell growth and survival.</p> <p>Synonyms: Lens Epithelium-Derived Growth Factor</p>
Molecular Weight:	75 kDa and/or 52 kDa
Pathways:	Chromatin Binding , Ribonucleoprotein Complex Subunit Organization

Application Details

Application Notes:	<p>Bioimaging:</p> <p>Methanol Procedure for a 96 well plate: Remove media from wells. Add 100 µl/well fresh 3.7% Formaldehyde in PBS. Incubate for 10 minutes at room temperature (RT). Flick out and add 100 µl/well 90% methanol. Incubate for 5 minutes at RT. Flick out and wash twice with PBS. Flick out PBS and add 100 µl/well blocking buffer (3% FBS in PBS). Incubate for 30 minutes at RT. Flick out and add diluted antibody (diluted in blocking buffer). Incubate for 1 hour at RT. Wash three times with PBS. Flick out PBS and add second step reagent. Incubate for 1 hour at RT. Wash three times with PBS.</p> <p>Triton-X 100 Procedure for a 96 well plate: Remove media from wells. Add 100 µl/well fresh 3.7% Formaldehyde in PBS. Incubate for 10 minutes at room temperature (RT). Flick out and add 100 µl/well 0.1% Triton-X 100. Incubate for 5 minutes at RT. Flick out and wash twice with PBS. Flick out PBS and add 100 µl/well blocking buffer (3% FBS in PBS). Incubate for 30 minutes at RT. Flick out and add diluted antibody (diluted in blocking buffer). Incubate for 1 hour at RT. Flick out and wash three times with PBS. Flick out and add second step reagent.</p>
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Application Details

Incubate for 1 hour at RT. Flick out and wash three times with PBS.

Comment: Related Products: ABIN968535, ABIN967389

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

Publications

Product cited in: Cherepanov, Maertens, Proost, Devreese, Van Beeumen, Engelborghs, De Clercq, Debyser: "HIV-1 integrase forms stable tetramers and associates with LEDGF/p75 protein in human cells." in: **The Journal of biological chemistry**, Vol. 278, Issue 1, pp. 372-81, (2002) ([PubMed](#)).

Nakamura, Singh, Kubo, Chylack, Shinohara: "LEDGF: survival of embryonic chick retinal photoreceptor cells." in: **Investigative ophthalmology & visual science**, Vol. 41, Issue 5, pp. 1168-75, (2000) ([PubMed](#)).

Singh, Kimura, Chylack, Shinohara: "Lens epithelium-derived growth factor (LEDGF/p75) and p52 are derived from a single gene by alternative splicing." in: **Gene**, Vol. 242, Issue 1-2, pp. 265-73, (2000) ([PubMed](#)).

Ge, Si, Wolffe: "A novel transcriptional coactivator, p52, functionally interacts with the essential splicing factor ASF/SF2." in: **Molecular cell**, Vol. 2, Issue 6, pp. 751-9, (1999) ([PubMed](#)).

Ge, Si, Roeder: "Isolation of cDNAs encoding novel transcription coactivators p52 and p75 reveals an alternate regulatory mechanism of transcriptional activation." in: **The EMBO journal**,

Images

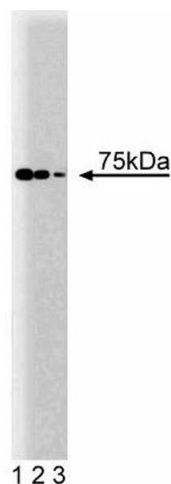
**Western Blotting**

Image 1. Western blot analysis of LEDGF on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2.2) (left). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-human LEDGF antibody.

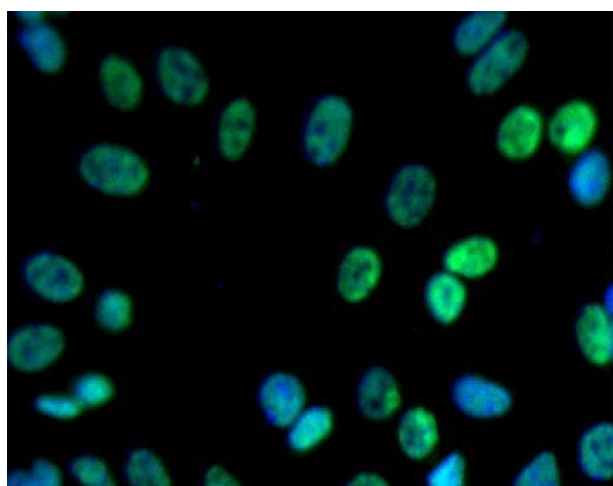
**Immunofluorescence**

Image 2. Immunofluorescent staining of SK-N-SH cells (Human neuroblastoma, ATCC HTB-11) (right). Cells were seeded in collagen coated 384-well imaging microplates at ~ 8,000 cells per well. After overnight incubation, cells were stained using the Triton-X 100 fix/perm protocol and the mouse anti-human LEDGF antibody. The second step reagent was Alexa Fluor® 488 goat anti mouse Ig (Invitrogen) (pseudo-colored green) and counter-stained with Hoechst 33342 (pseudo-colored blue). The images were captured on a BD Pathway™ 855 or 435 Bioimager system using a 20x objective and merged using BD Attovision™ software. This antibody also stained SH-SY5Y (Human neuroblastoma, ATCC CRL-2266), C6 (Rat glioma, ATCC CCL-107), U-87 MG (Human glioblastoma cells, ATCC HTB-14) and U-373 cells (Human glioblastoma cells, ATCC HTB-17, discontinued) using both the Triton-X 100 and methanol fix/perm protocols.