

Product datasheet

Anti-PSIP1/LEDGF antibody [EPR11890] ab177159

KO VALIDATED Recombinant RabMAB

[1 References](#) [6 Images](#)

Overview

Product name	Anti-PSIP1/LEDGF antibody [EPR11890]
Description	Rabbit monoclonal [EPR11890] to PSIP1/LEDGF
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Synthetic peptide within Human PSIP1/LEDGF aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: O75475
Positive control	WB: HEK293T, Jurkat, HeLa and K562 cell lysates. IHC-P: Human brain and hepatocellular carcinoma tissues. ICC/IF: K562 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR11890
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab177159 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

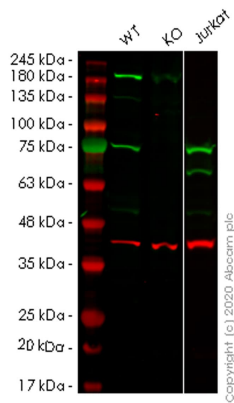
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 75 kDa (predicted molecular weight: 60 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/250.

Application notes Is unsuitable for Flow Cyt or IP.

Target

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.
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.
Involvement in disease	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.
Sequence similarities	Belongs to the HDGF family. Contains 1 PWWP domain.
Domain	Residues 340-417 are necessary and sufficient for the interaction with HIV-1 IN (IBD domain).
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus. Remains chromatin-associated throughout the cell cycle.

Images



Western blot - Anti-PSIP1/LEDGF antibody [EPR11890] (ab177159)

All lanes : Anti-PSIP1/LEDGF antibody [EPR11890] (ab177159) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : PSIP1 knockout HEK293T cell lysate

Lane 3 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

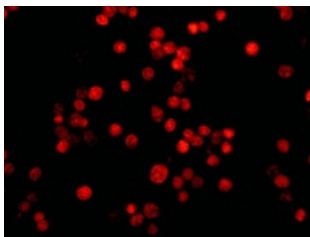
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 60 kDa

Observed band size: 75 kDa

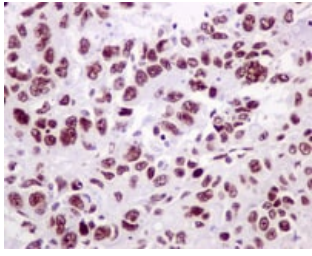
Lanes 1-3: Merged signal (red and green). Green - ab177159 observed at 75 kDa. Red - loading control ab8245 observed at 36 kDa.

ab177159 Anti-PSIP1/LEDGF antibody [EPR11890] was shown to specifically react with PSIP1/LEDGF in wild-type HEK293T cells. Loss of signal was observed when knockout cell line ab266464 (knockout cell lysate ab258144) was used. Wild-type and PSIP1/LEDGF knockout samples were subjected to SDS-PAGE. ab177159 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-PSIP1/LEDGF antibody [EPR11890] (ab177159)

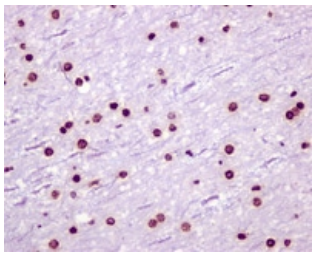
Immunofluorescent analysis of K562 cells labeling PSIP1/LEDGF with ab177159 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSIP1/LEDGF antibody [EPR11890] (ab177159)

Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling PSIP1/LEDGF with ab177159 at 1/50 dilution.

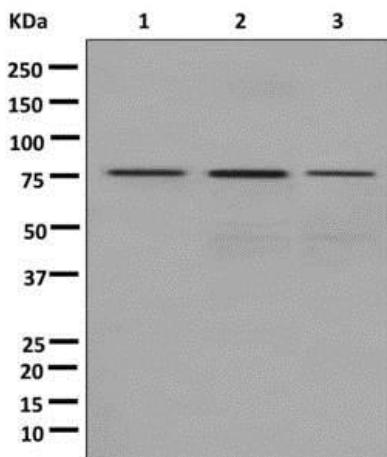
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSIP1/LEDGF antibody [EPR11890] (ab177159)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling PSIP1/LEDGF with ab177159 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-PSIP1/LEDGF antibody [EPR11890] (ab177159)

All lanes : Anti-PSIP1/LEDGF antibody [EPR11890] (ab177159) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : K562 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 60 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PSIP1/LEDGF antibody [EPR11890]
(ab177159)

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

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