

## **Human LEDGF Antibody**

Monoclonal Mouse IgG<sub>1</sub> Clone # 762815 Catalog Number: MAB3468

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human LEDGF in direct ELISAs and Western Blots.	
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 762815	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human LEDGF Met1-Lys333 Accession # O75475	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.  *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

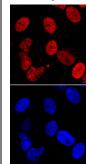
	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunocytochemistry	8-25 μg/mL	See Below

#### DATA

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Detection of Human LEDGF by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. Gels were loaded with 40  $\mu g$  of cytoplasmic (Cyto) and 20  $\mu g$  of nuclear (Nuc) extracts. PVDF membrane was probed with 1  $\mu g/mL$  of Mouse Anti-Human LEDGF Monoclonal Antibody (Catalog # MAB3468) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). Specific bands were detected for LEDGF p75 at approximately 75 kDa and LEDGF p52 at approximately 50-55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### Immunocytochemistry



LEDGF in HeLa Human Cell Line. LEDGF was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human LEDGF Monoclonal Antibody (Catalog # MAB3468) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

### PREPARATION AND STORAGE

**Reconstitution** Sterile PBS to a final concentration of 0.5 mg/mL.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

LEDGF, also known as transcription co-activator p75, is a 75 kDa protein that belongs to the hepatoma-derived growth factor (HDGF) family of nuclear targeted proteins. It is a widely expressed protein that interacts with lentiviral integrase. As a result of alternative splicing, isoforms with deletions, substitutions/insertions have been reported. Human LEDGF shares 91%, 92% and 96% amino acid sequence homology with rat, mouse and feline LEDGF, respectively.

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