

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LEDGF in direct ELISAs and Western Blots.
Source	Monoclonal Mouse IgG ₁ Clone # 762815
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -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

<p>Western Blot</p> <p>Detection of Human LEDGF by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. Gels were loaded with 40 µg of cytoplasmic (Cyto) and 20 µg of nuclear (Nuc) extracts. PVDF membrane was probed with 1 µg/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.</p>	<p>Immunocytochemistry</p> <p>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.</p>
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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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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.