

#2088 Store at -20°C

LEDGF (C57G11) Rabbit mAb



✓ 100 µl
(10 western blots)

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

rev. 08/20/10

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

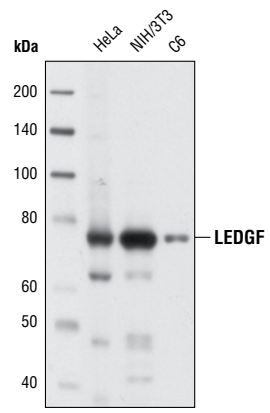
Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IHC-P, IF-IC, F Endogenous	H, M, R, (Mk)	75 kDa	Rabbit IgG**

Background: The LEDGF (lens epithelium-derived growth factor) gene encodes splice variants P75 and P52 (1). LEDGF (C57G11) Rabbit mAb detects the 75 kDa LEDGF splice form. Both LEDGF variants have transcriptional coactivator functions that may regulate gene transcription and mRNA splicing of a variety of proteins that are essential for cell growth and survival. (2,3). LEDGF has also been identified as a factor that can, in serum free media, stimulate the growth and survival of lens epithelial cells and other cell types such as retinal photoreceptor cells, COS7 cells, skin fibroblasts, and keratinocytes (2).

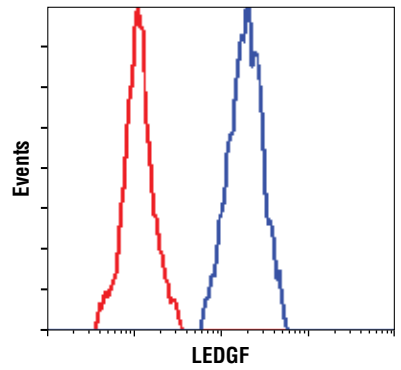
In addition to its function as a transcriptional coactivator, LEDGF has been shown to be involved in the pathogenesis of atopic dermatitis (4) and in the activity of HIV1 integrase. LEDGF binds chromatin throughout the cell cycle, and may act as a chromatin docking factor for HIV integrase and other lentiviral pre-integration complexes. It protects HIV integrase from degradation, and influences the pattern of viral integration into the cell genome (5).

Specificity/Sensitivity: LEDGF (C57G11) Rabbit mAb detects endogenous levels of LEDGF protein.

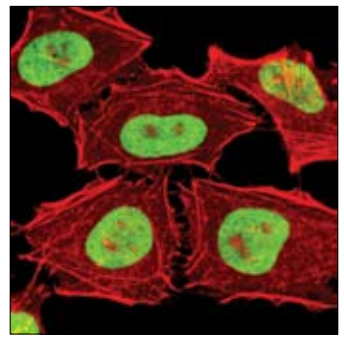
Source/Purification: Monoclonal antibody is produced by immunizing animals with synthetic peptide corresponding to amino acids surrounding Lys461 of human LEDGF.



Western blot analysis of extracts from various cell types using LEDGF (C57G11) Rabbit mAb.



Flow cytometric analysis of Jurkat cells using LEDGF (C57G11) Rabbit mAb (blue) compared to a nonspecific negative control antibody (red).



Confocal immunofluorescent analysis of HeLa cells using LEDGF (C57G11) Rabbit mAb (green). Actin filaments have been labeled with DY-554 phalloidin (red).

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunohistochemistry (Paraffin)	1:50
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112
Immunofluorescence (IF-IC)	1:400
Flow Cytometry	1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

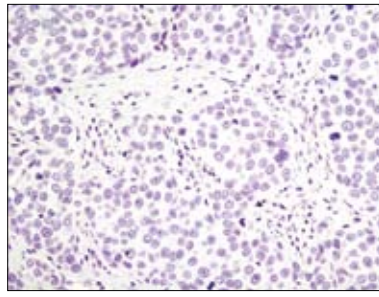
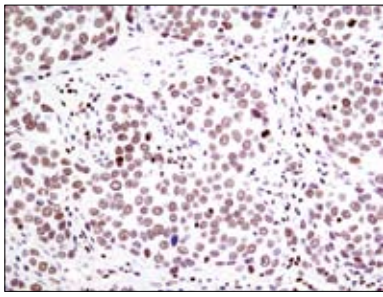
Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

- (1) Ge, H. et al. (1998) *EMBO J* 17, 6723–9.
- (2) Singh, D.P. et al. (2000) *Biochem Biophys Res Commun* 267, 373–81.
- (3) Singh, D.P. et al. (2001) *Biochem Biophys Res Commun* 283, 943–55.
- (4) Sugiura, K. et al. (2007) *J Invest Dermatol* 127, 75–80.
- (5) Poeschla, E.M. (2008) *Cell Mol Life Sci*, Epub ahead of Print.

© 2010 Cell Signaling Technology, Inc. Rabbit monoclonal antibody is produced under license (granting certain rights including those under U. S. Patent No. 5,675,063) from EpiTomics, Inc.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma using LEDGF (C57G11) Rabbit mAb in the presence of control peptide (left) or antigen-specific peptide (right).