

LEDGF (C57G11) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P, IF-IC, FC-FP	H M R	Endogenous	75	Rabbit IgG	#O75475	11168

Product Usage Information**Application**

Western Blotting
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:50
1:400
1:100

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.

For a carrier free (BSA and azide free) version of this product see product #96208.

Specificity/Sensitivity

LEDGF (C57G11) Rabbit mAb detects endogenous levels of LEDGF protein.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

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

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).

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* 65, 1403-24.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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