# LFC Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | Lfc, Polyclonal Antibody |
| **Full Product Name** | Lfc (phospho Ser885) Polyclonal Antibody |
| **Product Gene Name** | anti-Lfc antibody |
| **Product Synonym Names** | ARHGEF2; KIAA0651; LFP40; Rho guanine nucleotide exchange factor 2; Guanine nucleotide exchange factor H1; GEF-H1; Microtubule-regulated Rho-GEF; Proliferating cell nucleolar antigen p40 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Purity/Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Specificity** | Phospho-Lfc (S885) Polyclonal Antibody detects endogenous levels of Lfc protein only when phosphorylated at S885. |
| **Preparation and Storage** | Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 111,543 Da |
| **Chromosome Location** | Chromosome: 1; NC_000001.10 (155916630..155948336, complement). Location: 1q21-q22 |
| **OMIM** | 607560 |
| **3D Structure** | ModBase 3D Structure for Q92974 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human Rho/Rac Guanine Nucleotide Exchange Factor 2 around the phosphorylation site of Ser885. AA range:851-900 |
| **Product Categories/Family for anti-Lfc antibody** | Primary Antibody |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-Lfc antibody** | Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF), Immunohistochemistry-Paraffin (IHC-P)(section), ELISA (EIA) |
| **Application Notes for anti-Lfc antibody** | WB: 1:500-1:2000<br>IHC: 1:100-1:300<br>ELISA: 1:5000 |
| **Related Product Information for anti-Lfc antibody** | Rho/Rac guanine nucleotide exchange factor 2 (ARHGEF2) Homo sapiens Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate rho-dependent signals. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Jun 2009] |
| **Other Notes** | Small volumes of anti-Lfc antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for Lfc purchase** | MBS8585950 is an antibody targeting Lfc. Also known as Lfc (phospho Ser885) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Lfc. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 253735775 |
| **NCBI GeneID** | 9181 |
| **NCBI Accession #** | NP_001155855.1 |
| **UniProt Primary Accession #** | Q92974 |
| **UniProt Secondary Accession #** | O75142; Q15079; Q5VY92; Q8TDA3; Q8WUG4; Q9H023; D3DVA6 |
| **UniProt Related Accession #** | Q92974 |
| **GenBank Nucleotide #** | NM_001162383.1 |
| **NCBI Official Full Name** | rho guanine nucleotide exchange factor 2 isoform 1 |
| **NCBI Official Synonym Full Names** | Rho/Rac guanine nucleotide exchange factor (GEF) 2 |
| **NCBI Official Symbol** | ARHGEF2 |
| **NCBI Official Synonym Symbols** | GEF; P40; GEFH1; LFP40; GEF-H1 |
| **UniProt Protein Name** | Rho guanine nucleotide exchange factor 2 |
| **UniProt Synonym Protein Names** | Guanine nucleotide exchange factor H1; GEF-H1; Microtubule-regulated Rho-GEF; Proliferating cell nucleolar antigen p40 |
| **UniProt Gene Name** | ARHGEF2 |
| **UniProt Synonym Gene Names** | KIAA0651; LFP40; GEF-H1 |
| **UniProt Entry Name** | ARHG2_HUMAN |
| **NCBI Protein Information** | rho guanine nucleotide exchange factor 2; microtubule-regulated Rho-GEF; guanine nucleotide exchange factor H1; proliferating cell nucleolar antigen p40; Rho/Rac guanine nucleotide exchange factor 2 |
| **NCBI Summary for Lfc** | Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form complex with G proteins and stimulate rho-dependent signals. Alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Jun 2009] |
| **UniProt Comments for Lfc** | ARHGEF2: a microtubule-associated guanine nucleotide exchange factor for Rac and Rho GTPases. Mediates cross-talk between microtubules and the actin cytoskeleton. Contains a phorbol esters/diacylglycerol binding and PH domain.<br><br>Protein type: GEFs, Rac/Rho; GEFs; Motility/polarity/chemotaxis<br><br>Chromosomal Location of Human Ortholog: 1q21-q22<br><br>Cellular Component: Golgi apparatus; microtubule; protein complex; tight junction; cytoskeleton; focal adhesion; cell soma; cytoplasmic membrane-bound vesicle; cytoplasm; spindle; dendritic shaft; cytosol; vesicle<br><br>Molecular Function: Rho guanyl-nucleotide exchange factor activity; protein binding; Rho GTPase binding; zinc ion binding; Rac guanyl-nucleotide exchange factor activity; microtubule binding; Rac GTPase binding; transcription factor binding<br><br>Biological Process: mitosis; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; negative regulation of microtubule depolymerization; cell morphogenesis; positive regulation of interleukin-6 production; actin filament organization; positive regulation of tumor necrosis factor production; regulation of cell proliferation; negative regulation of neurogenesis; activation of NF-kappaB transcription factor; intracellular protein transport; regulation of small GTPase mediated signal transduction; positive regulation of peptidyl-tyrosine phosphorylation; establishment of mitotic spindle orientation; cell division; small GTPase mediated signal transduction; regulation of Rho protein signal transduction; innate immune response; positive regulation of transcription from RNA polymerase II promoter |

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| **Research Articles on Lfc** | **1.** extracellular matrix stiffness regulates RhoA through microtubule destabilization and the subsequent release and activation of GEF-H1. |
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