

For Research Use Only

# MultiPro™ 5CFLX Anti-Human Lamin A/C (5I16)



Catalog Number: G81042-1-5C

## Basic Information

<b>Catalog Number:</b> G81042-1-5C	<b>GenBank Accession Number:</b> BC003162	<b>CloneNo.:</b> 5I16
<b>Size:</b> 10ug, Concentration: 500ug/mL by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4000	<b>Conjugate:</b> 5CFLX
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000160789	<b>Full Oligo Sequence:</b> CGGAGATGTGTATAAGACAGAAAGT GGAGTGTGTCTCCCATATAAGAAA
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P02545	<b>Barcode Sequence:</b> AAGTGGAGTGTGTCT
<b>Immunogen Catalog Number:</b> AG0408	<b>Full Name:</b> MultiPro™ 5CFLX Anti-Human Lamin A/C (5I16)	

## Applications

**Tested Applications:**  
Single Cell (Intra)

**Species Specificity:**  
Human

## Background Information

Lamin A/C is also named as LMNA, or LMN1. The lamin family of proteins make up the matrix and are highly conserved in evolution. During mitosis, the lamina matrix is reversibly disassembled as the lamin proteins are phosphorylated. Lamin proteins are thought to be involved in nuclear stability, chromatin structure and gene expression. The lack of lamin A/C can be as a novel marker for undifferentiated embryonic stem cells and lamin A/C expression is as an early indicator of differentiation (PMID: 16179429). Mutations in this gene lead to several diseases: Emery-Dreifuss muscular dystrophy, familial partial lipodystrophy, limb girdle muscular dystrophy, dilated cardiomyopathy, Charcot-Marie-Tooth disease, and Hutchinson-Gilford progeria syndrome. This protein has 4 isoforms produced by alternative splicing with the molecular weight of 74 kDa, 65 kDa, 70 kDa and 64 kDa. This antibody can recognize 4 isoforms of Lamin A/C.

## Storage

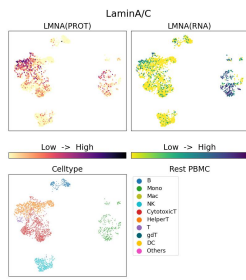
**Storage:**  
2-8°C

**Storage Buffer:**  
PBS with 1mM EDTA and 0.09% sodium azide

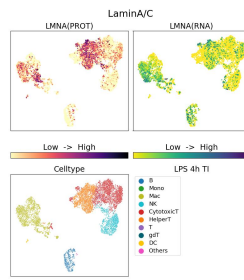
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



G81042-1-5C was used to stain Resting PBMC and analyzed with 10x Genomics Gene Expression Flex with Feature Barcodes and Multiplexing kit with Fix-Stain protocol.



G81042-1-5C was used to stain PBMC under 4hr LPS + TI treatment and analyzed with 10x Genomics Gene Expression Flex with Feature Barcodes and Multiplexing kit with Fix-Stain protocol.