

For Research Use Only

# Nesprin 3 Monoclonal antibody

Catalog Number: 68420-1-Ig



## Basic Information

<b>Catalog Number:</b> 68420-1-Ig	<b>GenBank Accession Number:</b> BC146604	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 161176	<b>CloneNo.:</b> 1D1G12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q6ZMZ3	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> chromosome 14 open reading frame 49	
<b>Immunogen Catalog Number:</b> AG26012	<b>Observed MW:</b> 110 kDa	

## Applications

**Tested Applications:**  
WB, IF-P, ELISA

**Species Specificity:**  
Human, mouse, rat

**Positive Controls:**

**WB :** HepG2 cells, HEK-293 cells, LNCaP cells, HeLa cells, Jurkat cells, MOLT-4 cells, C2C12 cells, PC-12 cells, rat testis tissue

**IF-P :** mouse testis tissue,

## Background Information

Nesprin 3 also known as C14orf49, SYNE3, belongs to the Nesprin family. Nesprin-3 is a type II transmembrane protein of the outer nuclear membrane and contains a C-terminal KASH domain and a series of spectrin repeats(PMID: 16330710). Nesprin-3, a protein that links intermediate filaments to the nucleus, regulates endothelial cell morphology, perinuclear cytoskeletal organization, and flow-induced cell polarization and migration. Nesprin-3 is robustly expressed in human aortic endothelial cells and localizes to the nuclear envelope(PMID: 21937718).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

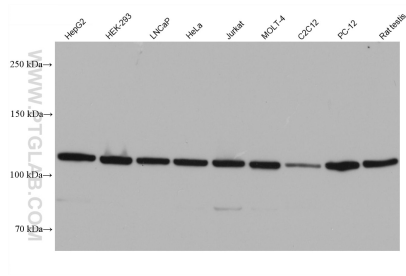
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

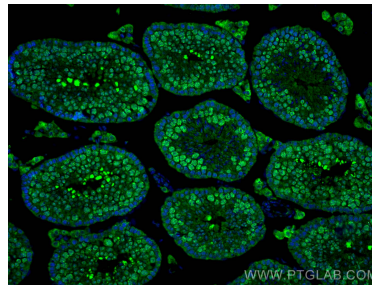
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68420-1-Ig (C14orf49 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using Nesprin 3 antibody (68420-1-Ig, Clone: 1D1G12) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).