

# Nesprin 3 Monoclonal antibody

Catalog Number: 68420-1-Ig

## Basic Information

**Catalog Number:**

68420-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG26012

**GenBank Accession Number:**

BC146604

**GeneID (NCBI):**

161176

**UNIPROT ID:**

Q6ZMZ3

**Full Name:**

chromosome 14 open reading frame

49

**Observed MW:**

110 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1D1G12

**Recommended Dilutions:**

WB 1:5000-1:50000

IF-P 1:50-1:500

## Applications

**Tested Applications:**

IF-P, WB, 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:**

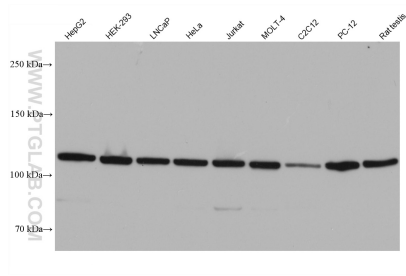
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

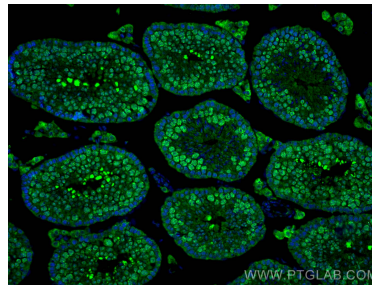
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## 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 AffiniPure Goat Anti-Mouse IgG(H+L).