

For Research Use Only

# CoraLite®594-conjugated Vimentin Monoclonal antibody

Catalog Number: CL594-60330

Featured Product

2 Publications



## Basic Information

Catalog Number:

CL594-60330

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG0489

GenBank Accession Number:

BC000163

GeneID (NCBI):

7431

ENSEMBL Gene ID:

ENSG00000026025

UNIPROT ID:

P08670

Full Name:

vimentin

Calculated MW:

466 aa, 54 kDa

Purification Method:

Protein G purification

CloneNo.:

3H9D1

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maximum wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

IF/ICC

Cited Applications:

IF

Species Specificity:

human, mouse, rat

Cited Species:

human, rat

Positive Controls:

IF/ICC : HepG2 cells,

## Background Information

Vimentin, also named as VIM, belongs to the intermediate filament family. Vimentin is class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is important for stabilizing the architecture of the cytoplasm. Monocyte-derived macrophages secrete vimentin into the extracellular space in vitro. Secretion of vimentin was enhanced by the proinflammatory cytokine tumor necrosis factor-alpha (TNF $\alpha$ ; 191160) and inhibited by the antiinflammatory cytokine IL10 (124092), suggesting that vimentin is involved in the immune response. Vimentin has specialized functions that contribute to specific dynamic cellular processes. As a phosphoprotein, 55-60 kDa of vimentin proteins can be observed due to the different phosphorylation level. The antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.

## Notable Publications

Author	Pubmed ID	Journal	Application
Maidinaimu Abudula	35557941	Front Cell Dev Biol	IF
Yang Luo	38024845	Mater Today Bio	IF

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

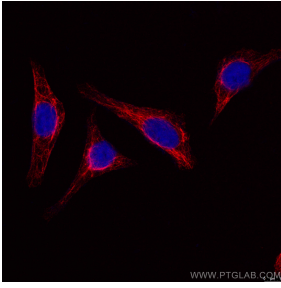
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CL594-60330 (Vimentin antibody) at dilution of 1:100.