

For Research Use Only

CoraLite®488-conjugated Vimentin Monoclonal antibody



Catalog Number: CL488-60330

2 Publications

Basic Information

Catalog Number:

CL488-60330

Size:

1000 µg/ml

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-P 1:50-1:500

IF/ICC 1:200-1:800

Excitation/Emission maxima
wavelengths:

491 nm / 516 nm

Applications

Tested Applications:

IF/ICC, IF-P

Cited Applications:

IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

IF-P : human tonsillitis tissue,

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 (TNFA; 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 CL488, Ex/Em 488 nm/515 nm.

Notable Publications

Author	Pubmed ID	Journal	Application
Feng Zheng	33760044	J Mol Cell Biol	IHC, IF
Chuan Yang	38575583	Signal Transduct Target Ther	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:

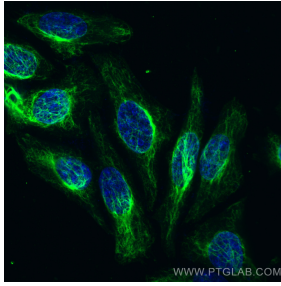
T: 4006900926

E: Proteintech-CN@ptglab.com

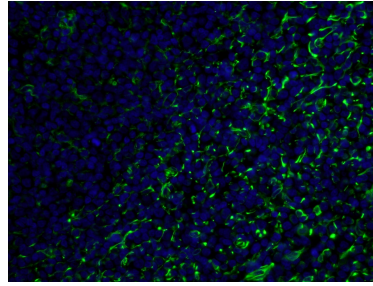
W: ptgcn.com

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

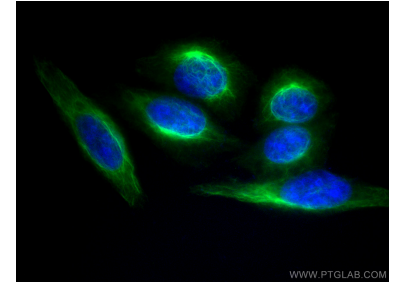
Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite®488 Vimentin antibody (CL488-60330, Clone: 3H9D1) at dilution of 1:400.



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CL488-60330 (Vimentin antibody) at dilution of 1:100..



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite®488 Vimentin antibody (CL488-60330, Clone: 3H9D1) at dilution of 1:400.