

For Research Use Only

# CoraLite®594-conjugated TNF-alpha Monoclonal antibody

Catalog Number:CL594-60291

Featured Product



## Basic Information

Catalog Number:

CL594-60291

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG11413

GenBank Accession Number:

BC028148

GeneID (NCBI):

7124

ENSEMBL Gene ID:

ENSG00000232810

UNIPROT ID:

P01375

Full Name:

tumor necrosis factor (TNF  
superfamily, member 2)

Calculated MW:

233 aa, 26 kDa

Purification Method:

Protein A purification

CloneNo.:

7B8A11

Recommended Dilutions:

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Excitation/Emission maxima  
wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

IF/ICC, IF-P

Species Specificity:

human

Positive Controls:

IF-P : human breast cancer tissue,

IF/ICC : PMA, LPS and Brefeldin A treated THP-1 cells,

## Background Information

TNF, as also known as TNF-alpha, or cachectin, is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. It is expressed as a 26 kDa membrane bound protein and is then cleaved by TNF-alpha converting enzyme (TACE) to release the soluble 17 kDa monomer, which forms homotrimers in circulation. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4+ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. The antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.

## 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:

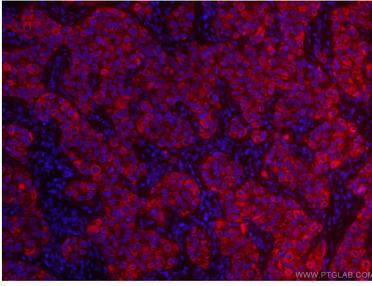
T: 4006900926

E: Proteintech-CN@ptglab.com

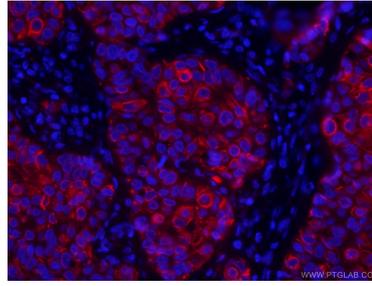
W: ptgcn.com

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

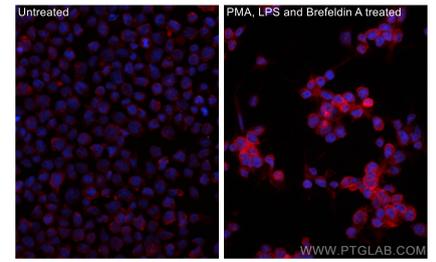
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CL594-60291 (TNF alpha antibody) at dilution of 1:50.



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CL594-60291 (TNF alpha antibody) at dilution of 1:50.



Immunofluorescent analysis of (4% PFA) fixed PMA, LPS and Brefeldin A treated THP-1 cells using CoraLite@594 TNF-alpha antibody (CL594-60291, Clone: 7B8A11) at dilution of 1:200.