

For Research Use Only

CoraLite® Plus 488-conjugated TNF-alpha Monoclonal antibody

Catalog Number: CL488-60291

Featured Product

5 Publications



Basic Information

Catalog Number: CL488-60291	GenBank Accession Number: BC028148	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 7124	CloneNo.: 7B8A11
Source: Mouse	ENSEMBL Gene ID: ENSG00000232810	Recommended Dilutions: IF-P: 1:50-1:500
Isotype: IgG2b	UNIPROT ID: P01375	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG11413	Full Name: tumor necrosis factor (TNF superfamily, member 2)	
	Calculated MW: 233 aa, 26 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P: human breast cancer tissue,
Cited Applications: WB, IHC, IF	
Species Specificity: human	
Cited Species: human, mouse	

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, INS resistance, and cancer. The antibody is conjugated with CL488, Ex/Em 488 nm/515 nm.

Notable Publications

Author	Pubmed ID	Journal	Application
Qing Xiong	31590127	Biomed Pharmacother	WB
Daolin Mou	40077496	Foods	IF
Jing Ma	39301567	Front Pharmacol	IHC,IF

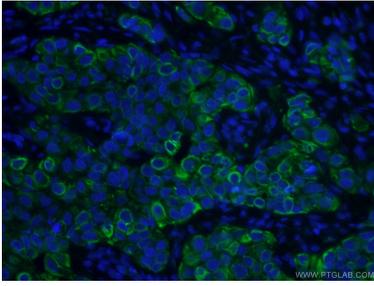
Storage

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, pH7.3
Aliquoting is unnecessary for -20°C storage

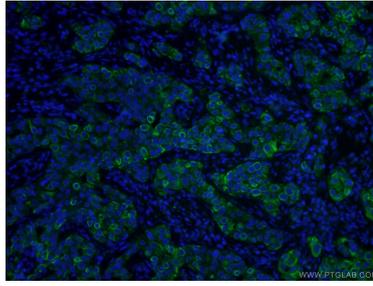
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech 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 CL488-60291 (TNF alpha antibody) at dilution of 1:50.



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