

For Research Use Only

# CoraLite® Plus 647-conjugated human IgM Monoclonal antibody

Catalog Number: CL647-66484



## Basic Information

<b>Catalog Number:</b> CL647-66484	<b>GenBank Accession Number:</b> BC009851	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3507	<b>CloneNo.:</b> 2D10B10
<b>Source:</b> Mouse	<b>Full Name:</b> immunoglobulin heavy constant mu	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 69 kDa	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Immunogen Catalog Number:</b> AG1459		

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : human appendicitis tissue, human tonsillitis tissue
<b>Species Specificity:</b> human	

## Background Information

IGHM is the constant region of heavy chain of IgM. IgM is the first immunoglobulin expressed during B cell development. IgM antibodies play an important role in primary immune response involved in early recognition of external invaders like bacteria and viruses, cellular waste and modified self, as well as in recognition and elimination of precancerous and cancerous lesions. The  $\mu$  heavy chain disease is a rare lymphoproliferative disorder. Human immunoglobulin heavy chain locus translocations are associated with leukaemias and lymphomas, including multiple myeloma, mantle cell lymphoma, Burkitt's lymphoma and diffuse large B cell lymphoma. This antibody detects the heavy chain of human IgM (~75 kDa).

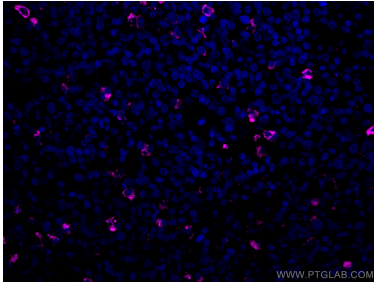
## Storage

**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

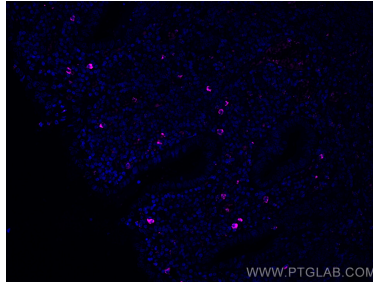
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CoraLite® Plus 647 human IgM antibody (CL647-66484, Clone: 2D10B10 ) at dilution of 1:100.



Immunofluorescent analysis of (4% PFA) fixed human appendicitis tissue using CoraLite® Plus 647 human IgM antibody (CL647-66484, Clone: 2D10B10 ) at dilution of 1:200.