

For Research Use Only

CoraLite®594-conjugated TUBB3-specific/TUJ1 Monoclonal antibody



Catalog Number: CL594-66375

2 Publications

Basic Information

Catalog Number:

CL594-66375

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

NM_001197181

GeneID (NCBI):

10381

Full Name:

tubulin, beta 3

Calculated MW:

55 kDa

Purification Method:

Protein G purification

CloneNo.:

1F8G10

Recommended Dilutions:

WB 1:1000-1:6000

IF 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

FC (Intra), IF/ICC, IF-P, WB

Cited Applications:

IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

mouse

Positive Controls:

WB : Neuro-2a cells,

IF : mouse brain tissue,

Background Information

TUBB3, the class III β tubulin or Tuj1, is selectively expressed in testis and neurons of the central and peripheral nervous system. It has been widely used as a marker for neurons. Aberrant expression of TUBB3 has also been found in various tumors of non-neural origin and can be used as a biomarker for cancer aggressiveness and a marker for the tendency to respond poorly to chemotherapy. This antibody is specific to TUBB3 but not cross-react with other tubulin isoforms. And the antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.

Notable Publications

Author	Pubmed ID	Journal	Application
Nao Iguchi	35332157	Sci Rep	IF
Yuki Shindo	35427599	Exp Cell Res	IHC

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:

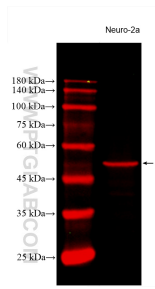
T: 4006900926

E: Proteintech-CN@ptglab.com

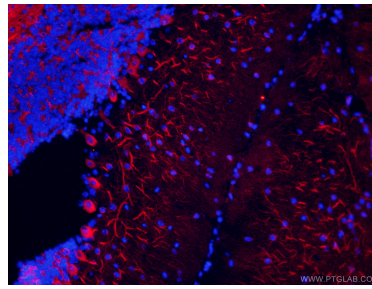
W: ptgcn.com

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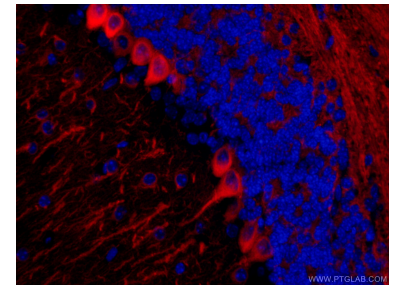
Selected Validation Data



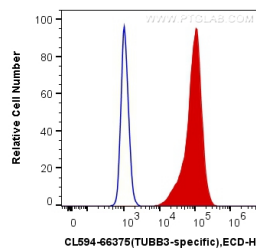
Neuro-2a lysates were subjected to SDS PAGE followed by western blot with CL594-66375 (TUBB3-specific antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



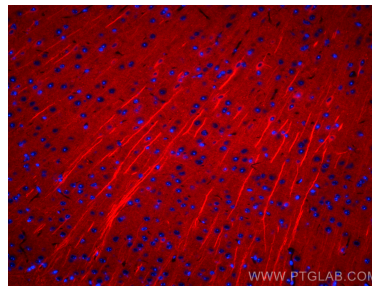
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL594-66375 (TUBB3-specific antibody) at dilution of 1:50.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL594-66375 (TUBB3-specific antibody) at dilution of 1:50.



1X10⁶ SH-SY5Y cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human TUBB3-specific (CL594-66375, Clone:1F8G10) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite®594 TUBB3-specific antibody (CL594-66375, Clone: 1F8G10) at dilution of 1:200.