TUBB3-specific Monoclonal antibody, PBS Only

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Antibodies | ELISA kits | Proteins
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Catalog Number:66375-1-PBS

Basic Information

Catalog Number: 66375-1-PBS	**GenBank Accession Number:** NM_001197181	**Purification Method:** Protein G purification
Size: 1 mg/ml	**GeneID (NCBI):** 10381	**CloneNo.:** 1F8G10
Source: Mouse	**Full Name:** tubulin, beta 3	
Isotype: IgG1	**Calculated MW:** 55 kDa	
	Observed MW: 50-55 kDa	

Applications

Tested Applications:
WB,IHC,IF,FC,ELISA

Species Specificity:
human, mouse, rat, rabbit, chicken, pig

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.

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS only
Aliquoting is unnecessary for -20°C storage

Selected Validation Data
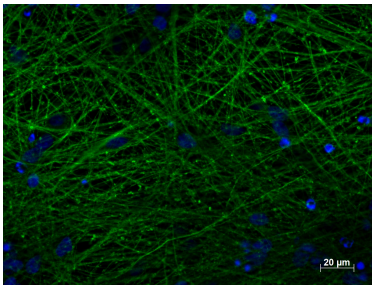
Immunofluorescent staining of TUBB3 (66375-1-lg, 1:250) with 4% PFA fixed control hiPSC derived neuronal cultures (35 days old). (Green: TUBB3; Blue: DAPI). Provided by BioTalentum Ltd., Hungary. This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.
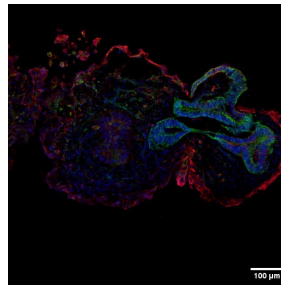

Retinal organoids (day 60) generated from human induced pluripotent stem cells (iPSCs) and fixed with 4% PFA. Stained for Tubulin beta 3/TUJ1 using 66375-1-lg at 1:500 dilution (green) and Cytokeratin 19 using 10712-1-AP at 1:200 (red). Nuclear stain DAPI (blue). Scale bar = 100 µm. Data generated by Alessandro Bellapianta at Johannes Kepler Universitat, Austria. This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.
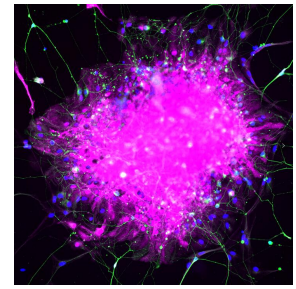

Immunofluorescence analysis of human pluripotent stem cell-derived astrocytes with S100β (15146-1-AP) at 1/200 (Magenta) and neurons with TUJ1 (66375-1-lg) at 1:500 (Green). The sample was fixed with 4% Paraformaldehyde and permeabilized with 0.3% Triton X-100. Alexa Fluor 488-conjugated goat anti-mouse IgG (1/500) and Alexa Fluor 594-conjugated goat anti-rabbit IgG (1/500) were used as the secondary antibodies. Nuclei were counterstained with
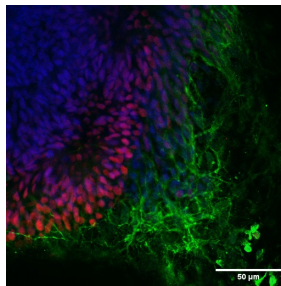

Retinal organoids (day 30) generated from human induced pluripotent stem cells (iPSCs) and fixed with 4% PFA. Stained for Tubulin beta 3/TUJ1 using 66375-1-lg at 1:500 dilution (green) and PAX6 (12323-1-AP) at 1:500. Nuclear stain DAPI (blue). Scale bar = 50 µm. Data generated by Alessandro Bellapianta at Johannes Kepler Universitat, Austria. This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.
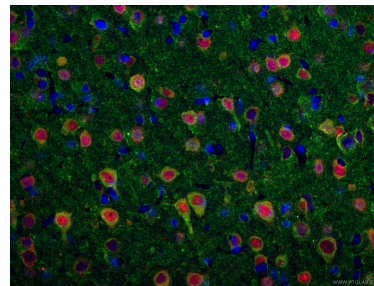

Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 66375-1-lg (TUBB3-specific antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). The section was co-stained with 26975-1-AP (NeuN antibody, red). This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.
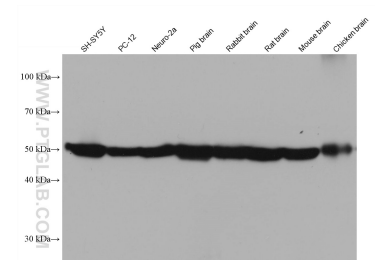

Various lysates were subjected to SDS PAGE followed by western blot with 66375-1-lg (TUBB3-specific antibody) at dilution of 1:49000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.
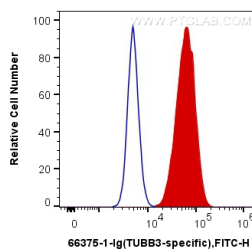

1X10^6 SH-SY5Y cells were intracellularly stained with 0.2 ug Anti-Human TUBB3-specific (66375-1-lg, Clone:1F8G10) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.
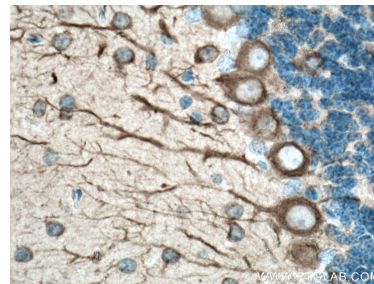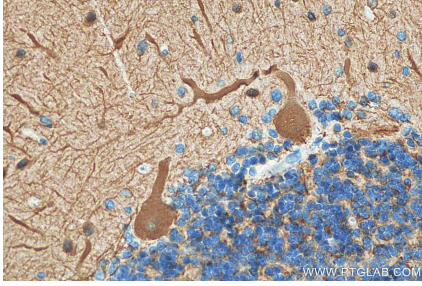

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66375-1-lg (TUBB3-specific antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.
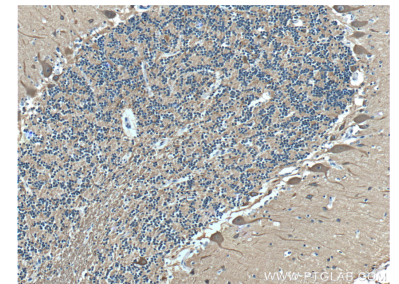
Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 66375-1-lg (TUBB3-specific Antibody) at dilution of 1:400 (under 10x lens). This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.
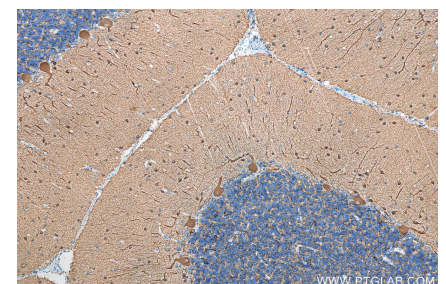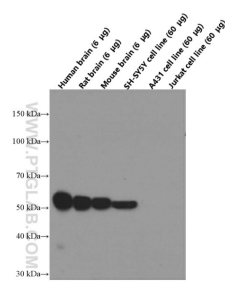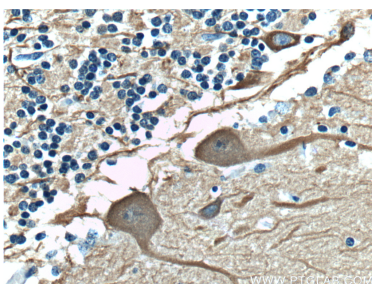
Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 66375-1-Ig (TUBB3-specific Antibody) at dilution of 1:400 (under 40x lens). This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.

Western blot analysis of TUBB3 in various tissues and cell lines with 66375-1-Ig (TUBB3-specific Antibody) at dilution of 1:40,000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 66375-1-Ig (TUBB3-specific antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded human cerebellum tissue slide using 66375-1-Ig (TUBB3-specific antibody) at dilution of 1:20000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66375-1-PBS in a different storage buffer formulation.