Basic Information

Catalog Number: 66375-1-Ig

Size: 150 μg/150 μl
Source: Mouse
Isotype: IgG1
Purification Method: Protein G purification

Immunogen Catalog Number:

GenBank Accession Number: NM_001197181
GeneID (NCBI): 10381

Recommended Dilutions:

WB: 1:5000-1:50000
IHC: 1:50-1:500
IF: 1:50-1:500

Applications

Tested Applications: IF, IHC, WB, ELISA
Cited Applications: FC, IF, WB
Species Specificity: human, mouse, rat
Cited Species: human, mouse

Positive Controls:

WB: fetal human brain tissue; SH-SY5Y cells
IHC: human cerebellum tissue; mouse brain tissue, mouse cerebellum tissue
IF: mouse brain tissue; iPS cells

Applications

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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.

Notable Publications

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<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Ji-Qiang Fu</td>
<td>30265483</td>
<td>CNS Neurosci Ther</td>
<td>IF</td>
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<tr>
<td>Wen Li</td>
<td>28977802</td>
<td>Cell Physiol Biochem</td>
<td>WB</td>
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<tr>
<td>Nanaka Kaneshiro</td>
<td>20777707</td>
<td>Biochem Biophys Res Commun</td>
<td>IF</td>
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Storage

Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage.

For technical support and original validation data for this product please contact:
E: proteintech@ptglab.com
W: ptglab.com

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

Immunohistochemistry 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 retrieved with Tris-EDTA buffer (pH 9).

Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 66375-1-lg (TUBB3-specific antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

Western blot analysis of TUBB3 in various tissues and cell lines with 66375-1-lg (TUBB3-specific Antibody) at dilution of 1:40,000 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human cerebellum tissue slide using 66375-1-lg (TUBB3-specific Antibody) at dilution of 1:400 (under 40x lens).

Immunohistochemistry of paraffin-embedded human cerebellum tissue slide using 66375-1-lg (TUBB3-specific Antibody) at dilution of 1:400 (under 10x lens).

Western blot analysis of TUBB3 in various cell lines with 66375-1-lg (TUBB3-specific Antibody) at dilution of 1:40,000 incubated at room temperature for 1.5 hours.