

Datasheet for ABIN1742553 anti-TUBB3 antibody (AA 443-450)



[Go to Product page](#)

1 Validation

4 Images

1 Publication

Overview

Quantity:	200 µL
Target:	TUBB3
Binding Specificity:	AA 443-450
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)

Product Details

Immunogen:	Synthetic peptide (aa 443-450 of mouse beta3-tubulin) coupled to key-hole limpet hemocyanin via an added N-terminal cysteine.
Specificity:	Specific for beta3-tubulin.
Purification:	antiserum

Target Details

Target:	TUBB3
Alternative Name:	beta3-Tubulin (TUBB3) (TUBB3 Products)
Background:	Synonyms: TuJ1
Pathways:	Microtubule Dynamics, M Phase

Application Details

Application Notes: WB: 1 : 1000 up to 1 : 10000 (AP staining)
ICC: 1 : 1000 up to 1 : 5000
IHC: 1 : 200 up to 1 : 500

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS

Handling Advice: Crude antisera are more robust than monoclonals. With anti-microbials added, they may be stored at 4 °C.
Serum does not contain active proteases, in fact, serum itself contains a powerful cocktail of protease inhibitors. Frozen storage (-20 °C), however, is preferable.

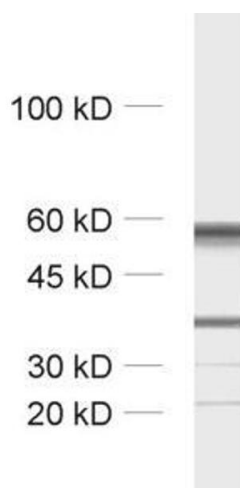
Storage: 4 °C/-20 °C

Storage Comment: Unlabeled antibodies are stable in this form without loss of quality at ambient temperatures for several weeks or even months. They can be stored at 4 °C for several years.

Publications

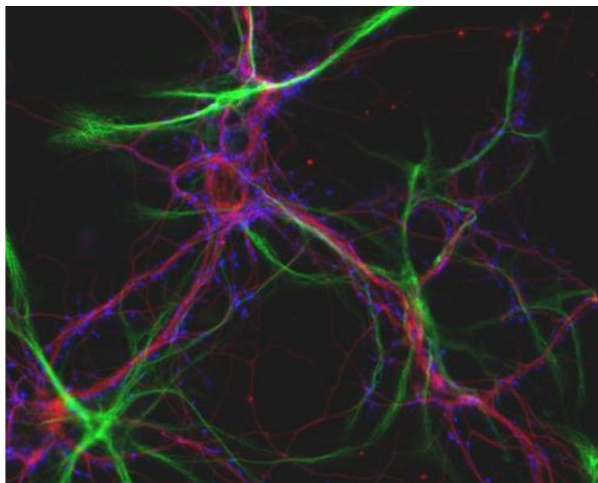
Product cited in: Yeo, Ting, Brena, Koh, Chen, Toh, Lim, Oh, Lee: "Genome-Wide Transcriptome and Binding Sites Analyses Identify Early FOX Expressions for Enhancing Cardiomyogenesis Efficiency of hESC Cultures." in: **Scientific reports**, Vol. 6, pp. 31068, (2016) ([PubMed](#)).

Images



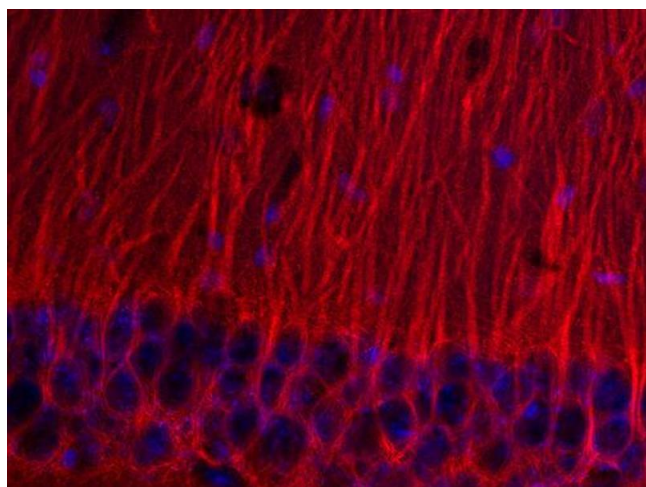
Western Blotting

Image 1.



Immunocytochemistry

Image 2.



Immunohistochemistry

Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1742553.



Successfully validated (Western Blotting (WB))

by [Kinexus Bioinformatics Corporation](#)

Report Number: 029822

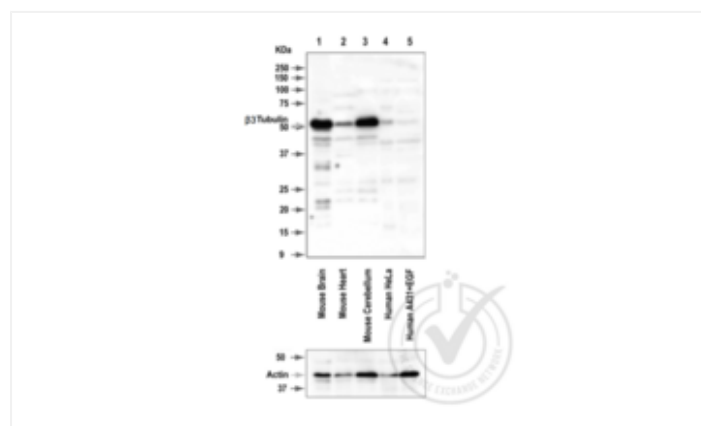
Date: Oct 28 2014

Lot Number:	302302/3
Method validated:	Western Blotting (WB)
Positive Control:	Mouse brain
Negative Control:	Mouse heart , HeLa cells , A431 cells
Notes:	A band was observed in the positive controls at the expected size (~50 kDa), which is lower in the negative controls.
Primary Antibody:	- Antigen: Tubulin, Beta, 3 (TUBB3) (AA 443-450) - Catalog number: ABIN1742553 - Supplier: Synaptic Systems - Supplier catalog number: 302 302 - Lot number: 302302/3 - Dilution: 1:1000
Secondary Antibody:	- Antibody: Donkey anti-Rabbit IgG Antibody (HRP) - Catalogue number: sc-2007 - Supplier: Santa Cruz - Lot number: F0613 - Dilution: 1:10,000
Controls:	- Lysates were prepared by Kinexus Bioinformatics Corporation following standard protocols and quality controlled for protein integrity on a regular basis.
Protocol:	<ul style="list-style-type: none"> 1. Cell/tissue total protein lysates were boiled in 1X SDS Sample Buffer containing 1% SDS and 1.25% β-mercaptoethanol at 95°C for 5 minutes prior to loading. 2. 15 μg of boiled lysate were loaded and resolved on a 12% SDS-polyacrylamide gel. 3. The Precision Plus Protein™ All Blue Prestained Standards from BioRad (161-0373) were used as molecular mass markers. 4. Proteins were transferred onto nitrocellulose membrane by tank transfer and protein transfer was confirmed with Ponceau S staining. 5. The immunoblot membrane was blocked in 2.5% skim milk and 1.5% BSA solution in TTBS at room temperature for 60 minutes. 6. The membrane was washed in TTBS twice for 5 minutes each. 7. The membrane was immersed with the protein side up in the antibody solution in TBS and incubated overnight at 4°C with gentle agitation. 8. The membrane was rinsed twice with TTBS. 9. The membrane was washed in TTBS twice for 5 minutes each. 10. The membrane was washed in TTBS once for 15 minutes. 11. The membrane was incubated in the HRP-conjugated secondary antibody solution in TBS for 60 minutes at room temperature with gentle agitation.

- 12. The membrane was rinsed twice with TTBS.
- 13. The membrane was washed in TTBS twice for 5 minutes each.
- 14. The membrane was washed in TTBS once for 15 minutes.
- 15. Signals were detected by chemiluminescence (ECL). The blot was scanned for 320 seconds.
- 16. The membrane was rinsed three times with TTBS.
- 17. Repeated Steps 4-15 with the loading control antibody and its matching secondary antibody. The blot was scanned for 160 seconds.

Experimental Notes: - No experimental challenges noted.

Image for Validation report #029822



Validation image no. 1 for anti-Tubulin, beta 3 (TUBB3) (AA 443-450) antibody (ABIN1742553)

Figure 1: Western Blot for Tubulin, Beta, 3 (TUBB3). Grey arrowhead indicates the expected molecular weight of ~50 kDa.