Datasheet for ABIN5668109

Recombinant anti-TUBB antibody

3 Images

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Overview

Quantity:	200 µg
Target:	TUBB
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This TUBB antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-Beta-Tubulin [S11B], Rabbit IgG, lambda
Immunogen:	Human MBP (microtubule-binding protein).
Clone:	S11B
Isotype:	IgG lambda
Specificity:	Binds specifically to human beta-tubulin (no crossreactivity with alpha-tubulin).
Characteristics:	Original Species of Ab: Human Original Format of Ab: scFv
Purification:	Protein A affinity purified

Target Details

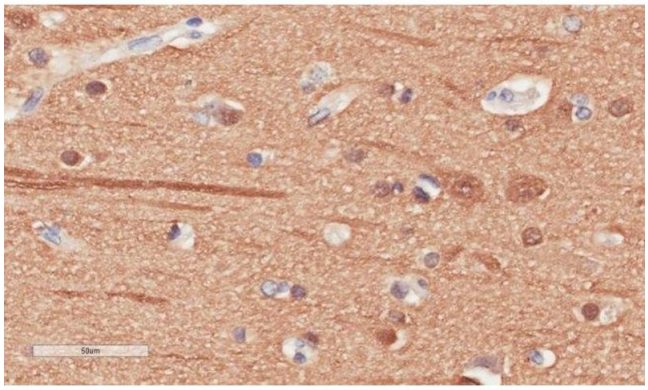
Target:	TUBB
Alternative Name:	Beta-Tubulin (TUBB Products)
Background:	TUBB
UniProt:	Q13509
Pathways:	Microtubule Dynamics, M Phase

Application Details

Application Notes:	This antibody binds to beta-tubulin. Tubulin is the major constituent of microtubules. The beta-chain has an exchangeable GTP-binding site.
Comment:	This full-length, chimeric rabbit antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.
Restrictions:	For Research Use only

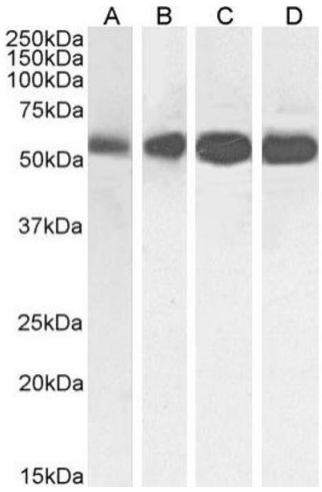
Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.



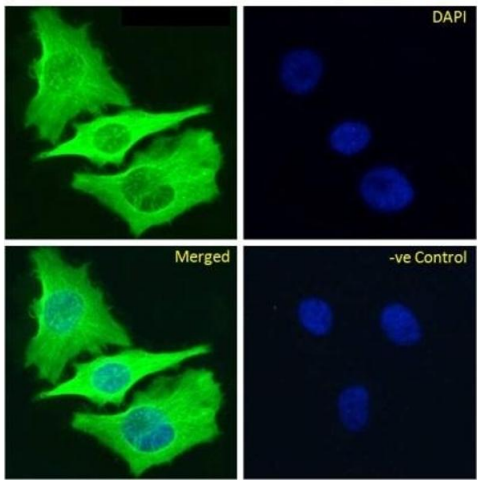
Immunohistochemistry

Image 1. Immunohistochemical staining of human cerebral cortex tissue using anti-Beta Tubulin antibody. S11B Anti-Beta Tubulin staining of paraffin embedded human cerebral cortex tissue using the rabbit-chimeric version of S11B (ABIN5668109). Antigen retreival was acheived by microwaving in citrate buffer (pH 6), followed by blocking with protein block serum-free buffer (Dako, cat. #X0909). Primary antibody incubation with ABIN5668109 was carried out at 4 µg/mL for 30 minutes. Samples were then incubated with an anti-rabbit IgG HRP secondary antibody (Dako cat#K4009) for 20 mins followed by DAB (3,3'-diaminobenzidine), and counter-staining with haemotoxylin. Staining of neuronal cell bodies and their processes may be observed. Recommended concentration, 2-4 µg/mL.



Western Blotting

Image 2. Western Blot using anti-Beta-Tubulin antibody S11B. HeLa (A), A431 (B), HEK293 (C) and MCF-7 (D) cell lysate samples (35 µg protein in RIPA buffer) were resolved on a 10 % SDS PAGE gel and blots probed with the chimeric rabbit version of S11B (ABIN5668109) at 0.01 µg/mL before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for Beta-Tubulin is ~54 kDa. ABIN5668109 successfully detected human Beta-Tubulin in HeLa, A431, HEK293 and MCF-7 cell lysate samples.



Immunofluorescence

Image 3. Immunofluoresence staining of fixed HeLa cells with anti-Beta-tubulin antibody S11B. Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15 % Triton stained with the chimeric rabbit IgG version of S11B (ABIN5668109) at 10 µg/mL for 1h followed by Alexa Fluor®488 secondary antibody (1 µg/mL), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom ABIN5668109, DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor®488 secondary antibody.