

Datasheet for ABIN4886757

anti-TUBB3 antibody (C-Term)**3** Images**3** Publications[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	TUBB3
Binding Specificity:	AA 383-412, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TUBB3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tubulin beta-3 chain(TUBB3) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Beta III Tubulin (383-412aa EQFTAMFRRK AFLHWYT GEGMDEMEFTEAE), identical to the related mouse and rat sequences.
Sequence:	EQFTAMFRRK AFLHWYT GEG MDEMEFTEAE
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Tubulin beta-3 chain(TUBB3) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: tubulin beta 3 class III

Product Details

Protein Name: Tubulin beta-3 chain

Purification: Immunogen affinity purified.

Target Details

Target: TUBB3

Alternative Name: TUBB3 ([TUBB3 Products](#))

Background: Tubulin beta-3 chain is a protein that in humans is encoded by the TUBB3 gene. This gene encodes a class III member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Mutations in this gene are the cause of congenital fibrosis of the extraocular muscles type 3. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6.

Synonyms: beta 3 tubulin | beta-4 | CDCBM | CDCBM1 | CFEOM3A | CFEOM3 | FEOM3 | M(beta)3 | M(beta)6 | MC1R | Tubb 3 | TUBB3 | TUBB4 | Tubulin beta 3 | Tubulin beta 3 chain | Tubulin beta 4 | Tubulin beta-4 chain | Tubulin beta III | Tubulin beta-III | Q13509

Gene ID: 10381

UniProt: [Q13509](#)

Pathways: [Microtubule Dynamics, M Phase](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

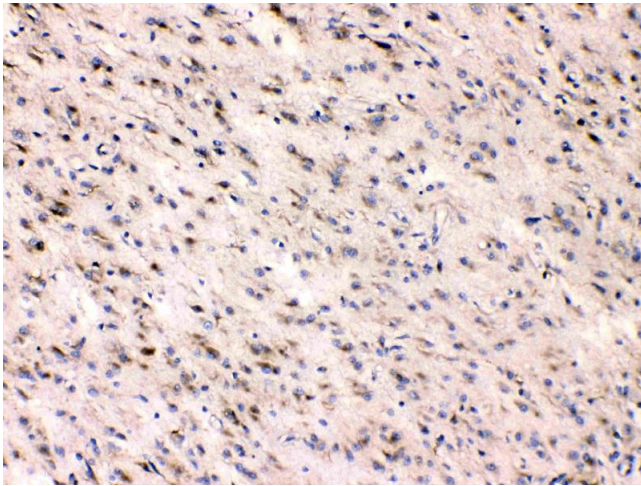
Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

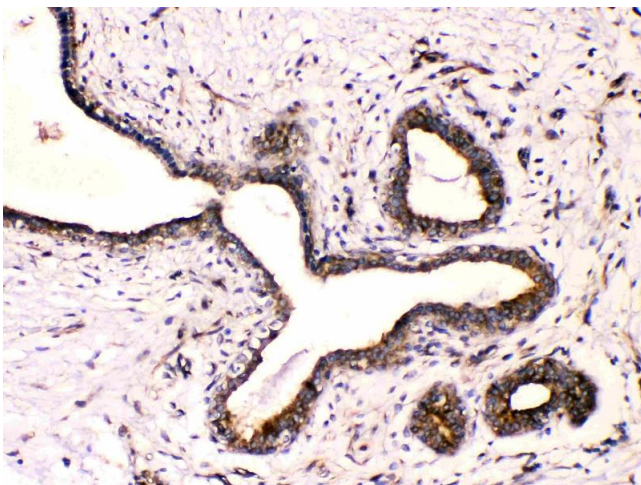
Publications

Product cited in:	<p>Qu, Zhang, Du, Wang, Yang, Guo, Wang, Zhang, Xu: "Pim-3 is a Critical Risk Factor in Development and Prognosis of Prostate Cancer." in: Medical science monitor : international medical journal of experimental and clinical research, Vol. 22, pp. 4254-4260, (2017) (PubMed).</p> <p>Zhu, Liu, Wang, Nie, He, Zhang, Liu, Su: "Lentiviral-mediated growth-associated protein-43 modification of bone marrow mesenchymal stem cells improves traumatic optic neuropathy in rats." in: Molecular medicine reports, Vol. 12, Issue 4, pp. 5691-700, (2016) (PubMed).</p> <p>Cao, Li, Li, Xiong, Zhou, Fan, Yu, Mao: "The potential role of HMGB1 release in peritoneal dialysis-related peritonitis." in: PLoS ONE, Vol. 8, Issue 1, pp. e54647, (2013) (PubMed).</p>
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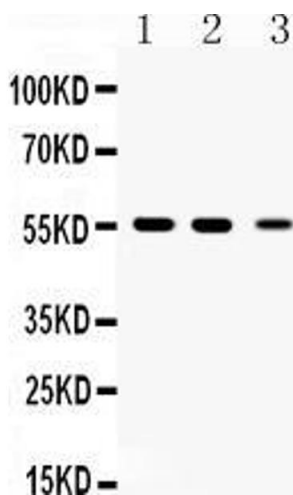
Immunohistochemistry

Image 1. Beta III Tubulin was detected in paraffin-embedded sections of human glioma tissues using rabbit anti- Beta III Tubulin Antigen Affinity purified polyclonal antibody (Catalog #) at 1 $\mu\text{g}/\text{mL}$. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. Beta III Tubulin was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- Beta III Tubulin Antigen Affinity purified polyclonal antibody (Catalog #) at 1 $\mu\text{g}/\text{mL}$. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 3. Western blot analysis of Beta III Tubulin expression in rat brain extract (Lane 1), mouse brain extract (Lane 2) and HELA whole cell lysates (Lane 3). Beta III Tubulin at 55KD was detected using rabbit anti- Beta III Tubulin Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 $\mu\text{g}/\text{mL}$. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).