

β-Tubulin Rabbit pAb

CatalogNo: YT4780

Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Pig, Cow, Fish

Applications

- WB, IHC, IF, IP, ELISA

MW

- 55kD (Observed)

Isotype

- IgG

Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC: 1:100-300

ELISA 1:20000

IF 1:100-300

Not yet tested in other applications.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human Tubulin beta. AA range:401-450

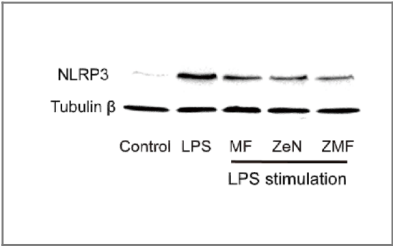
Specificity

Tubulin β Polyclonal Antibody detects endogenous levels of Tubulin β protein.

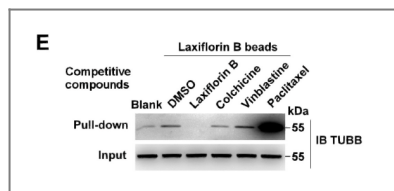
Target Information

Gene name	TUBB3		
Protein Name	Tubulin beta-3 chain		
	Organism	Gene ID	UniProt ID
	Human	10381 ;	Q13509 ;
	Mouse	22152 ;	Q9ERD7 ;
	Rat	246118 ;	Q4QRB4 ;
Cellular Localization	Cytoplasm, cytoskeleton . Cell projection, growth cone . Cell projection, lamellipodium . Cell projection, filopodium .		
Tissue specificity	Expression is primarily restricted to central and peripheral nervous system. Greatly increased expression in most cancerous tissues.		
Function	Domain:The highly acidic C-terminal region may bind cations such as calcium.,Function:Receptor for MSH (alpha, beta and gamma) and ACTH. The activity of this receptor is mediated by G proteins which activate adenylate cyclase.,Function:Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha-chain.,polymorphism:Genetic variations in MC1R are associated with variation in skin/hair/eye pigmentation type 2 (SHEP2) [MIM:266300]. Hair, eye and skin pigmentation are among the most visible examples of human phenotypic variation, with a broad normal range that is subject to substantial geographic stratification. In the case of skin, individuals tend to have lighter pigmentation with increasing distance from the equator. By contrast, the majority of variation in human eye and hair color is found among individuals of European ancestry, with most other human populations fixed for brown eyes and black hair.,polymorphism:Variations in MC1R are linked to the degree of skin pigmentation (Types I-IV). Type I skin the most lightly pigmented and type IV the most dark pigmented. Partial loss-of-function mutations are associated with fair skin, poor tanning and increased skin cancer risk.,similarity:Belongs to the G-protein coupled receptor 1 family.,similarity:Belongs to the tubulin family.,subunit:Dimer of alpha and beta chains.,tissue specificity:Melanocytes and corticoadrenal tissue.,		

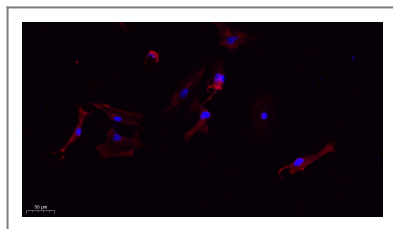
Validation Data



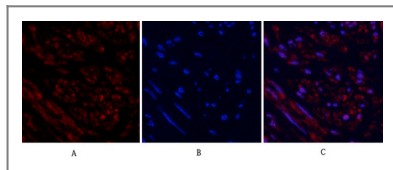
A reactive oxygen/nitrogen species-eliminating natural product-based nanomedicine for prevention and treatment of inflammatory liver injury. Yu Gao WB Mouse RAW264.7 cell



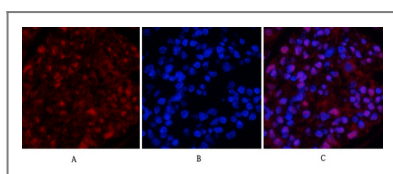
Laxiflorin B covalently binds the tubulin colchicine-binding site to inhibit triple negative breast cancer proliferation and induce apoptosis. CHEMICO-BIOLOGICAL INTERACTIONS Duo Zheng IF, Pull Down Human 1:200 MDA-MB-231 cell, BT549 cell



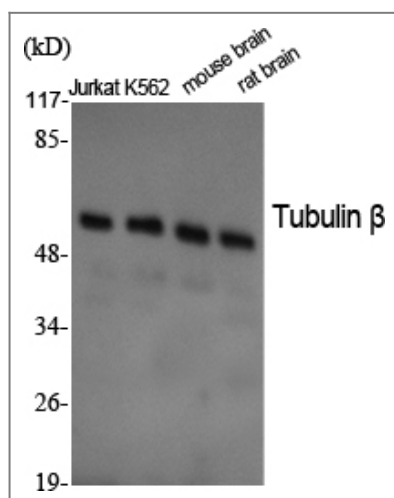
Immunofluorescence analysis of A549. 1, primary Antibody (red) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000 (room temperature, 50min). 3, DAPI (blue) 10min.



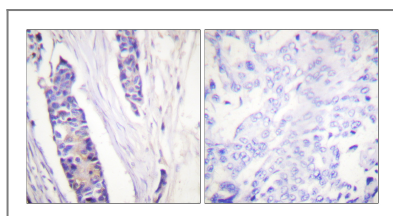
Immunofluorescence analysis of human-uterus tissue. 1, Tubulin β Polyclonal Antibody (red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of rat-kidney tissue. 1, Tubulin β Polyclonal Antibody (red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western Blot analysis of various cells using Tubulin β Polyclonal Antibody diluted at 1:2000. Secondary antibody (catalog#: RS0002) was diluted at 1:20000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Tubulin beta Antibody. The picture on the right is blocked with the synthesized peptide.

Contact information

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Please scan the QR code
to access additional
product information:
**β-Tubulin Rabbit
pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

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