

β-Tubulin Monoclonal Antibody(5G3)

Catalog No: YM3030

Reactivity: Human;Rat;Mouse;Mk;Dg;Ch;Hamster;Rabbit;sheep;Insect;Yeast;Fish;Bovine;R

ice

Applications: WB;IF;IHC

Target: Tubulin β

Fields: >>Phagosome;>>Gap junction;>>Alzheimer disease;>>Parkinson

disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Pathogenic

Escherichia coli infection;>>Salmonella infection

Gene Name: TUBB3

Protein Name: Tubulin beta-3 chain

Human Gene Id: 10381

Human Swiss Prot Q13509

No:

Mouse Gene Id: 22152

Mouse Swiss Prot

No:

Rat Gene Id: 246118

Rat Swiss Prot No: Q4QRB4

Immunogen : Synthetic Peptide of β-Tubulin

Q9ERD7

Specificity: The antibody detects endogenous β -tubulin protein.

Formulation : PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and

50% Glycerol.

Source: Monoclonal, Mouse

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WB 1:5000 IHC 1:200 IF 1:200 **Dilution:**

Purification: The antibody was affinity-purified from mouse ascites by affinity-

chromatography using specific immunogen.

Concentration: 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:**

Observed Band: 55kD

Background: tubulin beta 3 class III(TUBB3) Homo sapiens 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. [provided by RefSeg, Oct 2010],

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 nonexchangeable 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 col

Cytoplasm, cytoskeleton. Cell projection, growth cone. Cell projection, Subcellular Location:

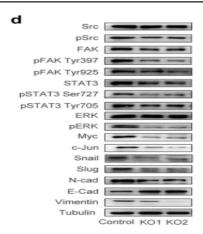
lamellipodium. Cell projection, filopodium.

Expression is primarily restricted to central and peripheral nervous system. **Expression:**

Greatly increased expression in most cancerous tissues.

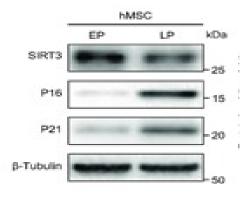
Products Images

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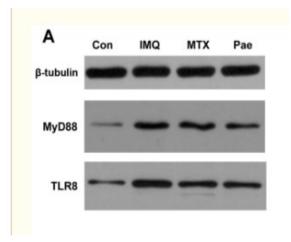


Cheng, X., Wang, J., Liu, C. et al. Zinc transporter SLC39A13/ZIP13 facilitates the metastasis of human ovarian cancer cells via activating Src/FAK signaling pathway. J Exp Clin Cancer Res 40, 199 (2021).

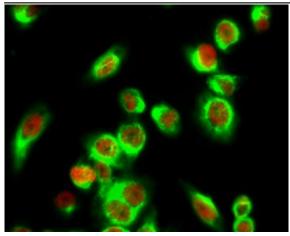


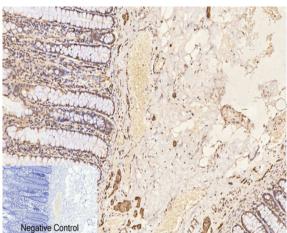


Diao, Zhiqing, et al. "SIRT3 consolidates heterochromatin and counteracts senescence." Nucleic acids research 49.8 (2021): 4203-4219.

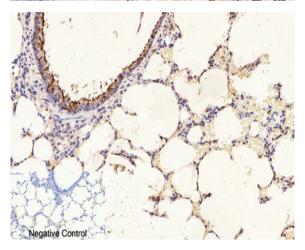


Meng, Yujiao, et al. "Paeonol ameliorates imiquimod-induced psoriasis-like skin lesions in BALB/c mice by inhibiting the maturation and activation of dendritic cells." International journal of molecular medicine 39.5 (2017): 1101-1110.

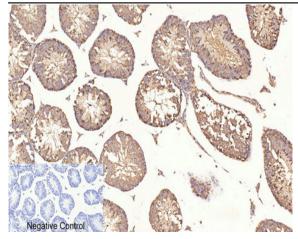




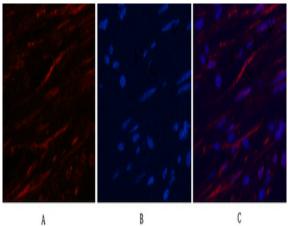
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1, β -Tubulin Monoclonal Antibody(5G3) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



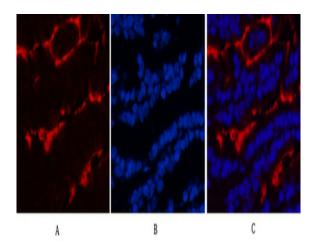
Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1, β -Tubulin Monoclonal Antibody(5G3) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



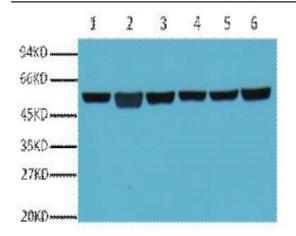
Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1, β -Tubulin Monoclonal Antibody(5G3) was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



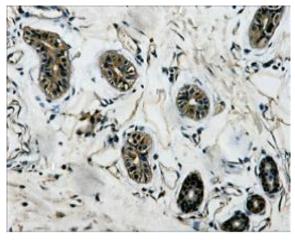
Immunofluorescence analysis of Human-appendix tissue. 1, β -Tubulin Monoclonal Antibody(5G3)(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



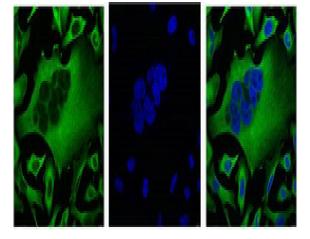
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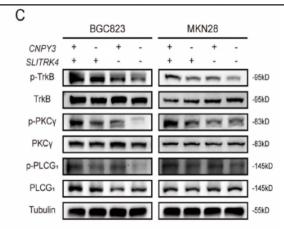
Western blot analysis of A549 (1), Rat brain (2), Mouse brain (3), Chicken lung (4) and Rabbit testis (5), Sheep muscle (6), diluted at 1:5000.



IHC Staining of Human colon tissue, diluted at 1:200.



IF analysis of Hela with $\beta\text{-}Tubulin$ Monoclonal Antibody(Left) and DAPI (Right) diluted at 1:100.



The SLITRK4-CNPY3 axis promotes liver metastasis of gastric cancer by enhancing the endocytosis and recycling of TrkB in tumour cells CELLULAR ONCOLOGY Li Jun WB Human BGC823 cell,MKN28 cell

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