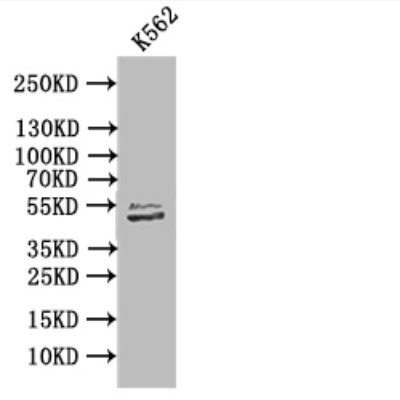
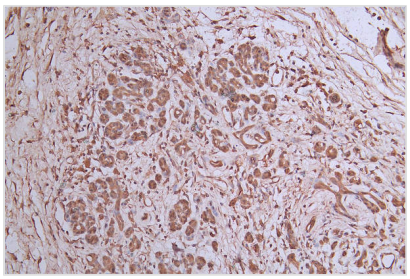
TUBB1 Recombinant Monoclonal Antibody

Product Code	CSB-RA867148MA1HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9H4B7
Immunogen	Recombinant Human TUBB1 protein
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, FC; Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, FC:1:20-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	Affinity-chromatography
Isotype	Mouse IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Signal transduction
Gene Names	TUBB1
Clone No.	20B1

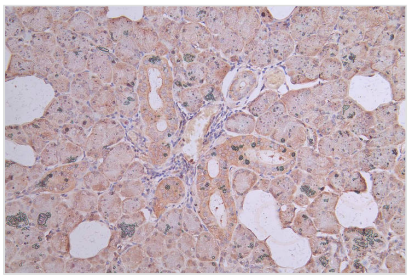
Image



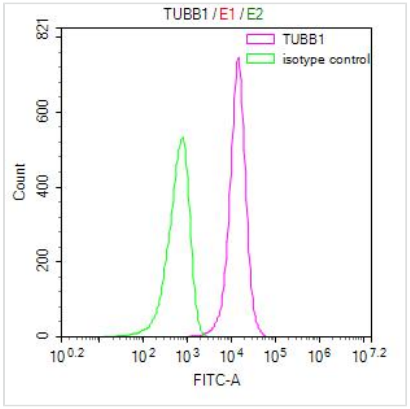
Western Blot
Positive WB detected in: K562 whole cell lysate
All lanes: TUBB1 antibody at 1:1000
Secondary
Goat polyclonal to mouse IgG at 1/50000 dilution
Predicted band size: 50 kDa
Observed band size: 50 kDa



IHC image of CSB-RA867148MA1HU diluted at 1:300 and staining in paraffin-embedded human pancreatic cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA867148MA1HU diluted at 1:300 and staining in paraffin-embedded human pancreatic tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.



Overlay Peak curve showing NIH/3T3 cells stained with CSB-RA867148MA1HU (red line) at 1:200. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10^6cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1μg/1*10^6cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

To create the TUBB1 recombinant monoclonal antibody, the process begins with the acquisition of the TUBB1 antibody genes. These genes are then introduced into suitable host cells, where they serve as the basis for synthesizing TUBB1 antibodies utilizing a cell-based expression and translation system. This method offers several advantages, including significantly enhancing the purity and stability of the resulting TUBB1 recombinant monoclonal antibodies, as well as boosting their affinity and specificity. Following synthesis, the TUBB1 recombinant monoclonal antibody undergoes a purification step utilizing affinity chromatography. Subsequently, it undergoes thorough testing through various assays, including ELISA, IHC, and FC. This antibody exclusively recognizes the human TUBB1 protein.

TUBB1 is a critical component of microtubules, and its primary role is to contribute to the structural integrity of the cytoskeleton and participate in various cellular processes, including intracellular transport, cell division, cell motility, and intracellular organization. Dysfunction in microtubule dynamics can have

significant implications for cell function and may contribute to diseases such as cancer and neurological disorders.