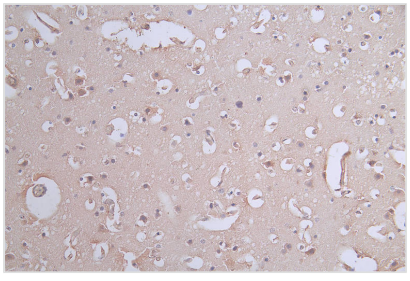
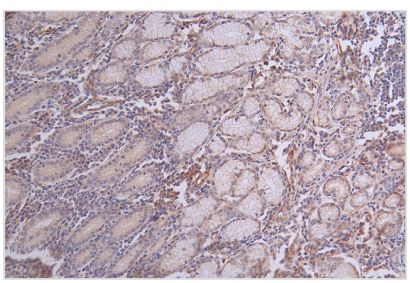
PXN Recombinant Monoclonal Antibody

Product Code	CSB-RA017450A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P49023
Immunogen	A synthesized peptide derived from Human PXN
Species Reactivity	Human
Tested Applications	ELISA, IHC, FC; Recommended dilution: IHC:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer;Signal transduction
Gene Names	PXN
Clone No.	32E1

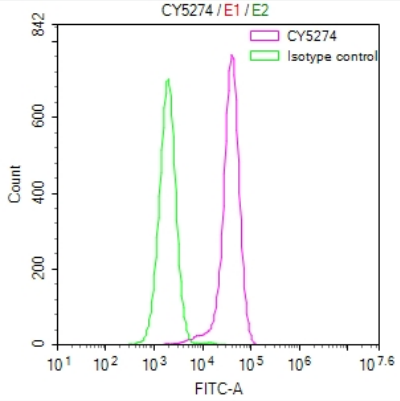
Image



IHC image of CSB-RA017450A0HU diluted at 1:50 and staining in paraffin-embedded human brain 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-rabbit polymer IgG labeled by HRP and visualized using 0.62% DAB.



IHC image of CSB-RA017450A0HU diluted at 1:50 and staining in paraffin-embedded human breast 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-rabbit polymer IgG labeled by HRP and visualized using 0.62% DAB.



Overlay Peak curve showing HepG2 cells stained with CSB-RA017450A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10^6cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1µg/1*10^6cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The production of the PXN recombinant monoclonal antibody relies on in vitro expression systems developed through the cloning of PXN antibody DNA sequences sourced from immunoreactive rabbits. The immunogen employed is a synthesized peptide derived from human paxillin. Subsequently, the PXN antibody genes are inserted into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells to facilitate antibody expression. Following expression, the PXN recombinant monoclonal antibody is subjected to affinity-chromatography purification. It undergoes comprehensive testing in ELISA, IHC, and FC applications, confirming its reactivity with the human PXN protein.

Paxillin (PXN) is a versatile protein that plays a central role in cell adhesion, signaling, and cytoskeletal organization. Its functions are critical for various cellular processes, including cell adhesion, migration, and tissue development. Dysregulation of paxillin can have significant implications in diseases like cancer and neurological disorders.