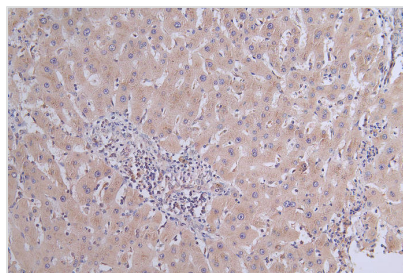




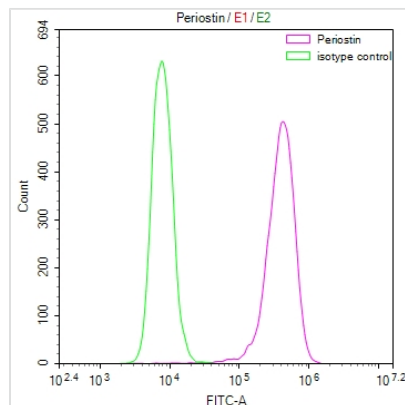
POSTN Recombinant Monoclonal Antibody

Product Code	CSB-RA119753A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q15063
Immunogen	A synthesized peptide derived from Human POSTN
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?Cardiovascular;Tags & Cell Markers;Signal transduction
Gene Names	POSTN
Clone No.	14F2

Image



IHC image of CSB-RA119753A0HU diluted at 1:50 and staining in paraffin-embedded human liver 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 0.31% DAB.



Overlay Peak curve showing 293T cells stained with CSB-RA119753A0HU (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 (1 μ g/1 \times 10⁶ cells) for 45min at 4 $^{\circ}$ C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4 $^{\circ}$ C. Control antibody (green line) was rabbit IgG (1 μ g/1 \times 10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The POSTN recombinant monoclonal antibody synthesis is a meticulously orchestrated process. It all starts with in vitro cloning, where the POSTN antibody genes are seamlessly incorporated into expression vectors. Following this, the expression vectors are introduced into host cells, enabling the recombinant antibody's expression within a cell culture environment. After expression, the antibody is carefully purified from the supernatant of transfected host cell lines, utilizing an affinity-chromatography purification method. This antibody is only reactive with the human POSTN protein. It is suitable for three applications, including ELISA, IHC, and FC.

The main function of POSTN (Periostin) protein is to serve as an extracellular matrix (ECM) protein that plays a role in tissue development, repair, and remodeling. POSTN is secreted by various cell types and is involved in several physiological and pathological processes, including cardiac health, allergic responses, tumor microenvironment, tissue homeostasis, and dental health.