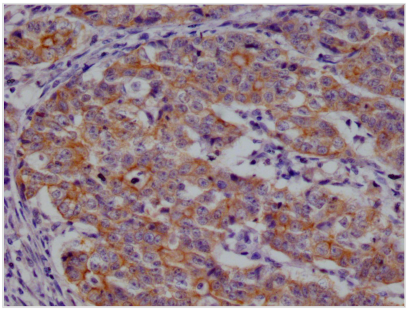
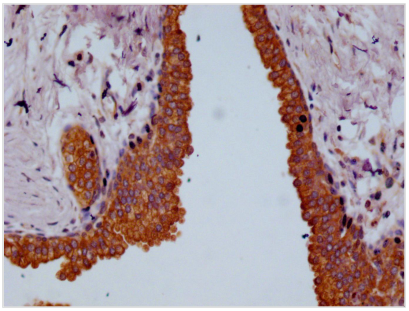
CSN2 Recombinant Monoclonal Antibody

Product Code	CSB-RA959139A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P05814
Immunogen	A synthesized peptide derived from human CSN2
Species Reactivity	Human
Tested Applications	ELISA, IHC, FC; Recommended dilution: IHC:1:50-1:200, FC:1:50-1:200
Relevance	Important role in determination of the surface properties of the casein micelles.
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; Metabolism; Signal transduction
Gene Names	CSN2
Clone No.	29D6

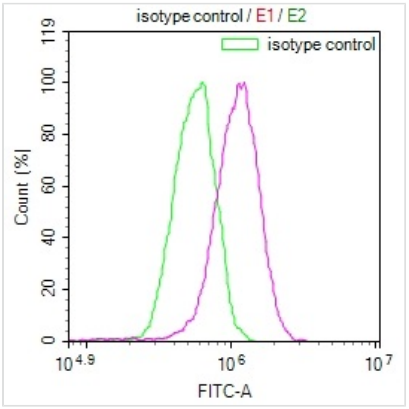
Image



IHC image of CSB-RA959139A0HU diluted at 1:100 and staining in paraffin-embedded human colon 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 0.05% DAB.



IHC image of CSB-RA959139A0HU diluted at 1:100 and staining in paraffin-embedded human prostate 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 0.05% DAB.



Overlay Peak curve showing HepG2 cells stained with CSB-RA959139A0HU (red line) at 1:100. 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-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1ug/1*10^6cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The production of the CSN2 recombinant monoclonal antibody involves a well-defined and rigorous process to ensure its quality and specificity. Initially, B cells are isolated from an immunized animal using the synthesized peptide derived from human CSN2 as the immunogen. Following that, total RNA is extracted from the isolated B cells and converted into cDNA through reverse transcription. The CSN2 antibody genes are amplified using PCR with specific primers designed for the antibody constant regions and inserted into an expression vector. This expression vector is then introduced into host cells, enabling the production of the CSN2 recombinant monoclonal antibody. The antibody is collected from the cell culture supernatant and undergoes purification using affinity chromatography, resulting in a highly purified form. Stringent characterization assays, including ELISA, IHC, and FC analysis, are performed to validate the antibody's specificity and functionality, ensuring its precise binding to human CSN2 protein.