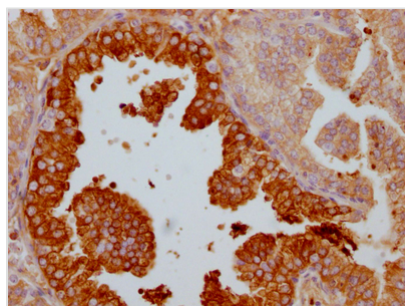




LTF Recombinant Monoclonal Antibody

Product Code	CSB-RA697089A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P02788
Immunogen	A synthesized peptide derived from human Lactoferrin
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate.
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
Gene Names	LTF
Clone No.	5A5

Image



IHC image of CSB-RA697089A0HU 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? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The creation of the LTF recombinant monoclonal antibody involves a precise and comprehensive process to ensure its exceptional quality and specificity. Initially, B cells are isolated from the spleen of an immunized animal, where the synthesized peptide derived from human Lactoferrin acts as the immunogen. The RNA is extracted from the B cells and converted into cDNA through reverse transcription. The LTF antibody genes are then amplified using specific primers



designed for the antibody constant regions and inserted into an expression vector. This vector is subsequently introduced into host cells via transfection, enabling the production of the LTF recombinant monoclonal antibody. Following a period of cell culture, the antibody is harvested from the cell culture supernatant and purified meticulously using affinity chromatography, resulting in a highly purified form suitable for various applications. Rigorous characterization assays, including ELISA and IHC analysis, are conducted to validate the antibody's specificity and functionality in detecting human LTF protein. The meticulous production process guarantees the development of a reliable and effective LTF recombinant monoclonal antibody, playing a pivotal role in diverse LTF-related research.