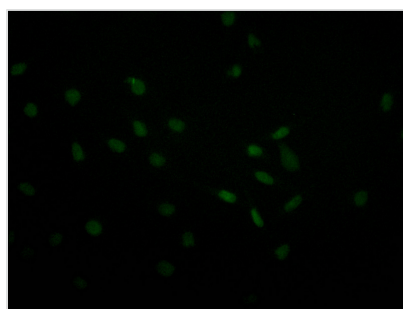




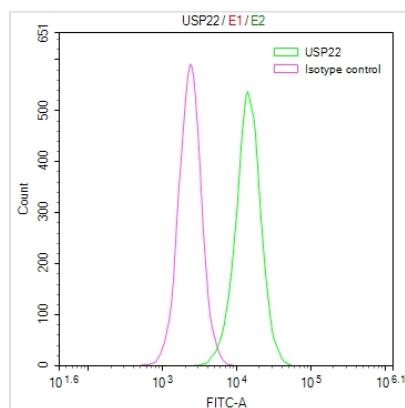
USP22 Recombinant Monoclonal Antibody

Product Code	CSB-RA067358A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9UPT9
Immunogen	A synthesized peptide derived from Human USP22
Species Reactivity	Human
Tested Applications	ELISA, IF, FC; Recommended dilution: IF: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	Epigenetics and Nuclear Signaling;Cell biology
Gene Names	USP22
Clone No.	18E3

Image



Immunofluorescence staining of MCF-7 with CSB-RA067358A0HU at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 493-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing Hela cells stained with CSB-RA067358A0HU (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*10⁶cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1μg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.



Description

The USP22 recombinant monoclonal antibody is synthetically produced in vitro using a systematic approach. Initially, USP22 antibody genes are extracted from B cells isolated from immunoreactive rabbits. These genes undergo amplification and are cloned into suitable phage vectors, which are subsequently introduced into mammalian cell lines to facilitate the production of functional antibodies in significant quantities. The resulting USP22 recombinant monoclonal antibody is subjected to affinity chromatography purification. After rigorous verification, the antibody can be used in ELISA, IF, and FC applications, allowing for precise detection of human USP22 protein.

USP22 is a multifunctional protein that plays a crucial role in epigenetic regulation by deubiquitinating histones and modulating chromatin structure. Its activities impact gene expression, cell cycle control, stem cell maintenance, DNA repair, and various aspects of development. Dysregulation of USP22 can have significant implications for diseases, including cancer.