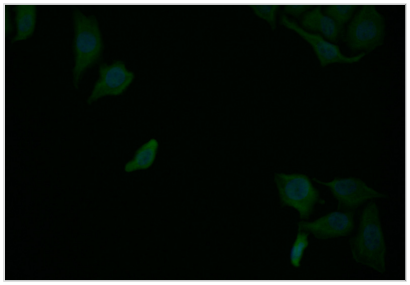
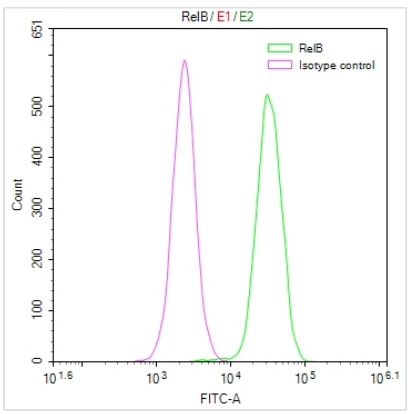
RELB Recombinant Monoclonal Antibody

Product Code	CSB-RA130517A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q01201
Immunogen	A synthesized peptide derived from Human RELB
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;Cancer;Cell biology;Signal transduction
Gene Names	RELB
Clone No.	9E4

Image



Immunofluorescence staining of Hela with CSB-RA130517A0HU at 1:25, 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 507-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing Hela cells stained with CSB-RA130517A0HU (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^{6}cells) 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^{6}cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The RELB recombinant monoclonal antibody production is a meticulously orchestrated process. It commences with in vitro cloning, where genes for both the heavy and light chains of the RELB antibody are seamlessly incorporated into plasmid vectors. Following this, these recombinant vectors are introduced into host cells, creating a conducive environment for the recombinant antibody's expression within a cell culture context. Post-expression, the RELB recombinant monoclonal antibody undergoes purification from the supernatant of transfected host cell lines, relying on the effectiveness of affinity chromatography. A remarkable characteristic of this antibody is its high specificity in binding to the human RELB protein. Furthermore, its versatility is evident, making it suitable for a diverse range of applications, including ELISA, IF, and FC.

RELB is a member of the Rel/NF-κB family of transcription factors, which play critical roles in controlling various cellular processes, particularly those related to the immune system and inflammation. Its activity is tightly controlled to ensure an appropriate response to immune challenges while avoiding excessive inflammation and autoimmune reactions.