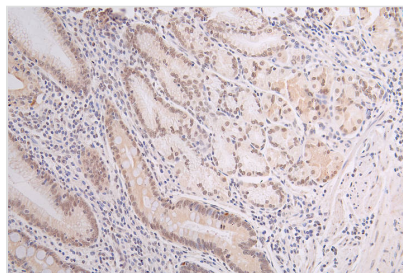




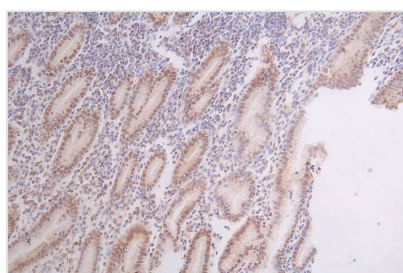
DEK Recombinant Monoclonal Antibody

Product Code	CSB-RA796958A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P35659
Immunogen	A synthesized peptide derived from Human DEK
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF, FC; Recommended dilution: IHC:1:50-1:200, 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
Gene Names	DEK
Clone No.	20D2

Image



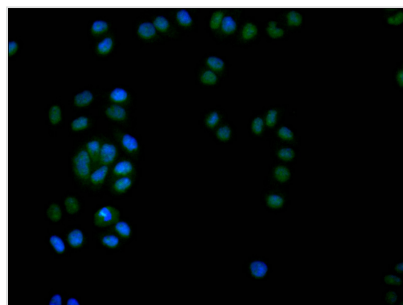
IHC image of CSB-RA796958A0HU diluted at 1:50 and staining in paraffin-embedded human gastric cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at 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 0.67% DAB.



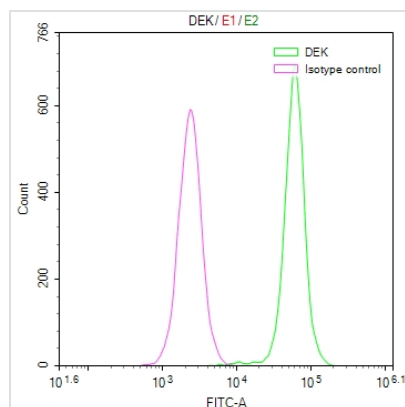
IHC image of CSB-RA796958A0HU diluted at 1:50 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. 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 0.67% DAB.



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Immunofluorescence staining of HeLa with CSB-RA796958A0HU at 1:20, 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 524-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing HeLa cells stained with CSB-RA796958A0HU (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

To produce a recombinant monoclonal antibody against DEK, CUSABIO initiated the process by immunizing a rabbit with a synthesized peptide corresponding to human DEK. Following immunization, B cells were isolated from the rabbit, and RNA was extracted from these cells. The extracted RNA was reverse-transcribed into cDNA, which was utilized as a template for extending DEK antibody genes using degenerate primers. These extended DEK antibody genes were then integrated into a plasmid vector and introduced into host cells for expression. The DEK recombinant monoclonal antibody was purified from the cell culture supernatant through affinity chromatography and evaluated for its utility in ELISA, IHC, IF, and FC applications, with specificity demonstrated for human DEK protein.

DEK is a nuclear protein that has been implicated in both normal cellular functions and disease-related processes. It is known to play various roles in the cell nucleus and is associated with several cellular processes, including chromatin organization, DNA binding, transcription regulation, cell cycle regulation, and immune response.