

Product Name: KD-Validated RelB Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00963**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 62.1kDa

Antigen Information

Gene Name	RELB RELB Proto-Oncogene, NF-KB Subunit; REL-B; V-Rel Avian Reticuloendotheliosis Viral Oncogene Homolog B (Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B-Cells 3); Transcription Factor RelB ; V-Rel Reticuloendotheliosis Viral Oncogene Homolog B, Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B-Cells 3; I-REL; IMD53; I-Rel; IREL
Alternative Names	
Gene ID	5971.0
SwissProt ID	Q01201
Immunogen	A synthesized peptide derived from human RelB

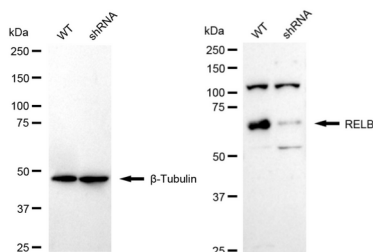
Background

Enables RNA polymerase II cis-regulatory region sequence-specific DNA binding activity and protein kinase binding activity. Involved in lymphocyte differentiation and negative regulation of interferon-beta production. Located in several cellular components, including centrosome; chromatin; and nucleoplasm. Part of nucleus and transcription repressor complex. Implicated in breast cancer and immunodeficiency 53. Biomarker of breast cancer and transitional cell carcinoma. [provided by Alliance of Genome Resources, Jul 2025]

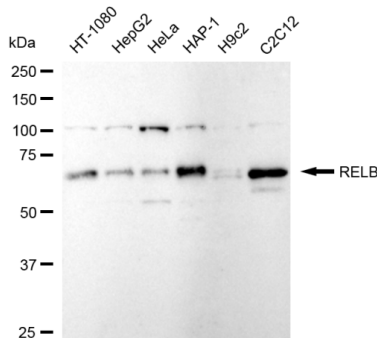
Research Area

Cell Biology,Signal Transduction,Epigenetics and Nuclear Signaling,Cancer

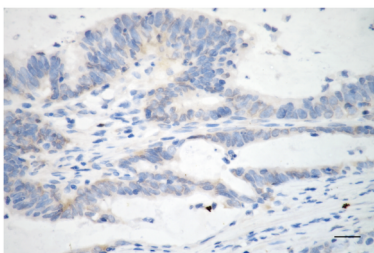
Image Data



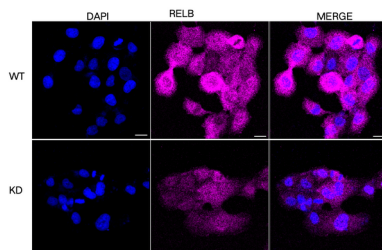
Western blotting analysis using RELB antibody (KVA00963). RELB expression in wild type (WT) and RELB shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with RELB antibody (KVA00963, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



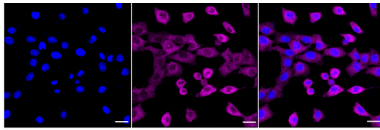
Western blotting analysis using RELB antibody (KVA00963). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RELB antibody (KVA00963, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



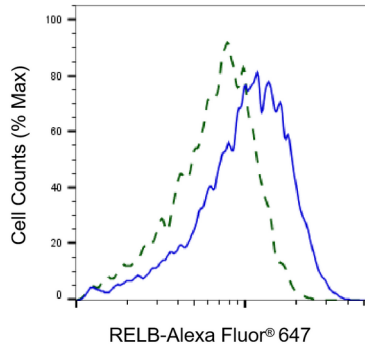
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using RELB antibody (KVA00963, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



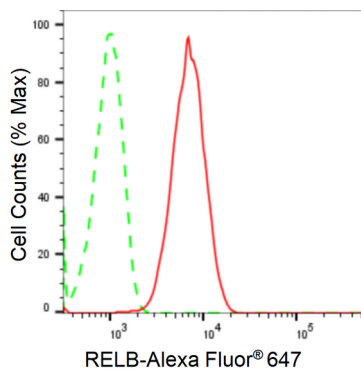
Immunocytochemical staining of HT-1080 cells using RELB antibody (KVA00963, 1:1,000). Top panel: wild-type (WT); Bottom panel: RELB shRNA knockdown (KD). Nuclei were stained blue with DAPI; RELB was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of C2C12 cells with RELB antibody (KVA00963, 1:1,000). Nuclei were stained blue with DAPI; RELB was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of RELB knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with RELB antibody (KVA00963, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of RELB expression in C2C12 cells using RELB antibody (KVA00963, 1:2,000). Green, isotype control; red, RELB.