

## Rabbit anti-Human c-Rel/REL Polyclonal Antibody | anti-c-Rel/REL antibody

Anti-c-Rel/REL Antibody Picoband

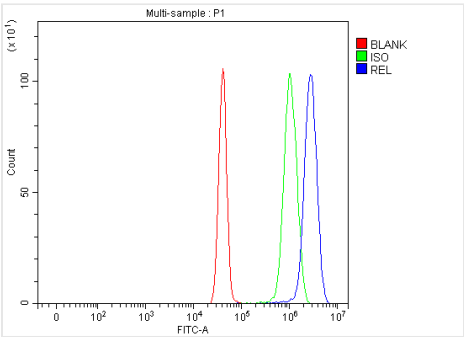
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                                   |
|-----------|--------|------------|------------------------------------------------------------------------------------------------|
| AAA127086 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

c-Rel/REL; Polyclonal Antibody; Anti-c-Rel/REL Antibody Picoband; programmed cell death 10; Programmed cell death protein 10; Cerebral cavernous malformations 3 protein; TF-1 cell apoptosis-related protein 15; PDCD10; CCM3; TFAR15; anti-c-Rel/REL antibody

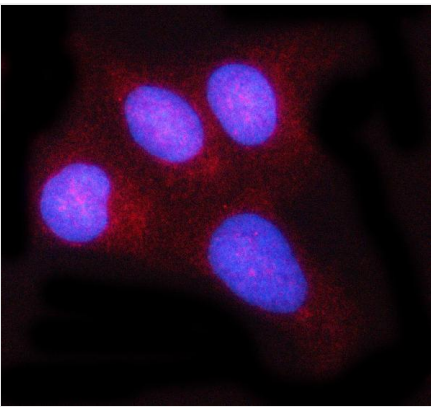
### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reactivity                                          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality                                           | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                                             | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Specificity                                         | Ubiquitous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Purity/Purification                                 | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form/Format                                         | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-c-Rel/REL antibody | ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Immunogen                                           | E coli-derived human c-Rel/REL recombinant protein (Position: K116-D610).                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Subcellular Localization                            | Cytoplasm. Golgi apparatus membrane, Partially co- localizes with endogenous PXN at the leading edges of migrating cells                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reconstitution                                      | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cross Reactivity                                    | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Protein Function                                    | Promotes cell proliferation. Modulates apoptotic pathways. Increases mitogen-activated protein kinase activity and STK26 activity (PubMed:27807006). Important for cell migration, and for normal structure and assembly of the Golgi complex (PubMed:27807006). Important for KDR/VEGFR2 signaling. Increases the stability of KDR/VEGFR2 and prevents its breakdown. Required for normal cardiovascular development. Required for normal angiogenesis, vasculogenesis and hematopoiesis during embryonic development (By similarity). |
| Preparation and Storage                             | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                   |



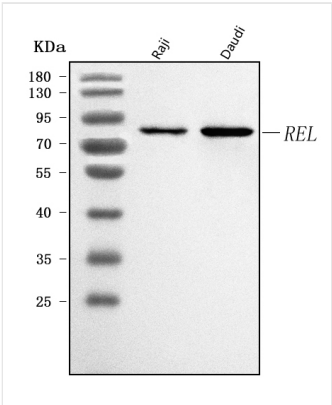
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-c-Rel/REL antibody (AAA127086).Overlay histogram showing U251 cells stained with AAA127086 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-c-Rel/REL Antibody (AAA127086, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 2. IF analysis of c-Rel/REL using anti-c-Rel/REL antibody (AAA127086).c-Rel/REL was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-c-Rel/REL Antibody (AAA127086) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of c-Rel/REL using anti-c-Rel/REL antibody (AAA127086).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Raji whole cell lysates,Lane 2: human Daudi whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-c-Rel/REL antigen affinity purified polyclonal antibody (#AAA127086) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for c-Rel/REL at approximately 78 kDa. The expected band size for c-Rel/REL is at 69 kDa.

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-c-Rel/REL antibody | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Product Categories/Family for anti-c-Rel/REL antibody   | Primary Antibodies; Apoptosis; Associated Proteins; Cell Biology; Developmental Biology; Intracellular; Neurogenesis; Neurology Process; Neuroscience; Organogenesis; Protein Phosphorylation; Ser/Thr Kinases; Signal Transduction                                               |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | 1. Beaussant-Cohen, S., Jaber, F., Massaad, M. J., Weeks, S., Jones, J., Alosaimi, M. F., Wallace, J., Al-Herz, W., Geha, R. S., Chou, J. Combined immunodeficiency in a patient with c-Rel deficiency. J. Allergy Clin. Immun. 144: 606-608, 2019. 2. Belguise, K., Sonenshein, G. E. PKC-theta promotes c-Rel-driven mammary tumorigenesis in mice and humans by repressing estrogen receptor-alpha synthesis. J. Clin. Invest. 117: 4009-4021, 2007. 3. Brownell, E., Fell, H. P., Tucker, P. W., Geurts van Kessel, A. H., Hagemeijer, A., Rice, N. R. Regional localization of the human c-rel locus using translocation chromosome analysis. Oncogene 2: 527-529, 1988. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4506473                                                                                                                                                 |
| NCBI GeneID                      | 5966                                                                                                                                                    |
| NCBI Accession #                 | NP_002899.1                                                                                                                                             |
| NCBI GenBank Nucleotide #        | NM_002908.2                                                                                                                                             |
| UniProt Accession #              | Q04864; Q2PNZ7; Q6LDY0                                                                                                                                  |
| Molecular Weight                 | 68,520 Da                                                                                                                                               |
| NCBI Official Full Name          | proto-oncogene c-Rel                                                                                                                                    |
| NCBI Official Synonym Full Names | v-rel reticuloendotheliosis viral oncogene homolog (avian)                                                                                              |
| NCBI Official Symbol             | REL                                                                                                                                                     |
| NCBI Official Synonym Symbols    | C-Rel                                                                                                                                                   |
| NCBI Protein Information         | proto-oncogene c-Rel; C-Rel proto-oncogene protein; oncogene REL, avian reticuloendotheliosis; v-rel avian reticuloendotheliosis viral oncogene homolog |
| UniProt Protein Name             | Proto-oncogene c-Rel                                                                                                                                    |
| UniProt Gene Name                | REL                                                                                                                                                     |
| UniProt Entry Name               | REL_HUMAN                                                                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.