

Rabbit anti-Human CRKL Polyclonal Antibody | anti-CRKL antibody

Anti-CRKL Antibody Picoband

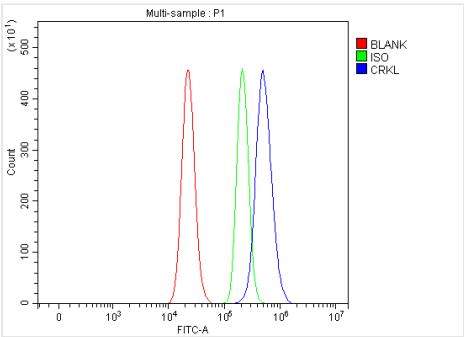
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127100	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

CRKL; Polyclonal Antibody; Anti-CRKL Antibody Picoband; Periplakin; 190 kDa paraneoplastic pemphigus antigen; 195 kDa cornified envelope precursor protein; PPL; KIAA0568; anti-CRKL antibody

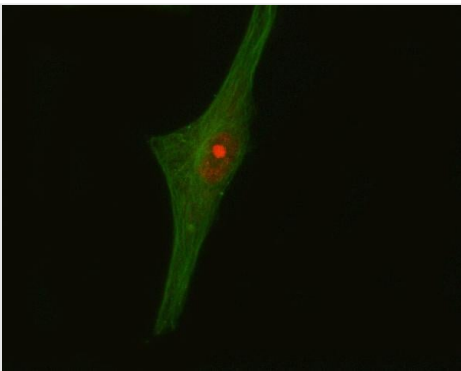
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in stratified squamous epithelia and in some other epithelia.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-CRKL antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human CRKL recombinant protein (Position: M1-H290).
Subcellular Localization	Cell junction, desmosome, Cytoplasm, cytoskeleton, Cell membrane, Nucleus, Mitochondrion, Associated with desmosomes and intermediate filaments
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	Component of the cornified envelope of keratinocytes. May link the cornified envelope to desmosomes and intermediate filaments. May act as a localization signal in PKB/AKT-mediated signaling.
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.



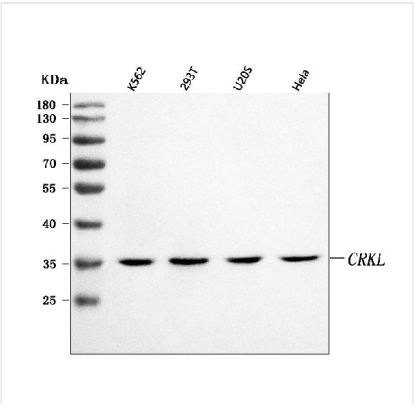
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of RT4 cells using anti-CRKL antibody (AAA127100).Overlay histogram showing RT4 cells stained with AAA127100 (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-CRKL Antibody (AAA127100, 1ug/1x10⁶ 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/1x10⁶) 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 CRKL using anti-CRKL antibody (AAA127100) and anti-Tubulin Alpha antibody (M03989-3).CRKL was detected in immunocytochemical section of U87 cell. 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-CRKL Antibody (AAA127100) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of CRKL using anti-CRKL antibody (AAA127100).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 K562 whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human U2OS whole cell lysates,Lane 4: human Hela 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-CRKL antigen affinity purified polyclonal antibody (#AAA127100) 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 CRKL at approximately 35 kDa. The expected band size for CRKL is at 34 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CRKL 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-CRKL antibody	Primary Antibodies; Cancer; Cardiovascular; Fatty Acid Oxidation; Fatty Acids; Lipid and Lipoprotein Metabolism; Lipid Metabolism; Lipids/Lipoproteins; Metabolic Signaling Pathways; Metabolism; Pathways and Processes; Redox Metabolism; Signal Transduction

References	1. Guris, D. L., Duester, G., Papaioannou, V. E., Imamoto, A. Dose-dependent interaction of Tbx1 and Crkl and locally aberrant RA signaling in a model of del22q11 syndrome. Dev. Cell 10: 81-92, 2006. 2. Guris, D. L., Fantes, J., Tara, D., Druker, B. J., Imamoto, A. Mice lacking the homologue of the human 22q11.2 gene CRKL phenocopy neurocristopathies of DiGeorge syndrome. Nature Genet. 27: 293-298, 2001. 3. Hallock, P. T., Xu, C.-F., Park, T.-J., Neubert, T. A., Curran, T., Burden, S. J. Dok-7 regulates neuromuscular synapse formation by recruiting Crk and Crk-L. Genes Dev. 24: 2451-2461, 2010.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4885153
NCBI GeneID	1399
NCBI Accession #	NP_005198.1
NCBI GenBank Nucleotide #	NM_005207.3
UniProt Accession #	P46109; A8KA44; D3DX35
Molecular Weight	33,777 Da
NCBI Official Full Name	crk-like protein
NCBI Official Synonym Full Names	v-crk sarcoma virus CT10 oncogene homolog (avian)-like
NCBI Official Symbol	CRKL
NCBI Protein Information	crk-like protein
UniProt Protein Name	Crk-like protein
UniProt Gene Name	CRKL
UniProt Entry Name	CRKL_HUMAN

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