

Rabbit anti-Human Cytokeratin 4/KRT4 Polyclonal Antibody | anti-KRT4 antibody

Anti-Cytokeratin 4/KRT4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127443	Rabbit	Human	Western Blot, Immunohistochemistry, Immunofluorescence, ELISA

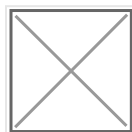
PRODUCT SYNONYMS

Cytokeratin 4/KRT4; Polyclonal Antibody; Anti-Cytokeratin 4/KRT4 Antibody Picoband; BAG family molecular chaperone regulator 5; BAG-5; Bcl-2-associated athanogene 5; BAG5; KIAA0873; anti-KRT4 antibody

PRODUCT SPECIFICATIONS

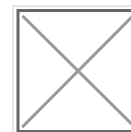
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in all tissues examined with lower levels in brain and testis.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-KRT4 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA
Immunogen	E coli-derived human Cytokeratin 4/KRT4 recombinant protein (Position: N170-S427).
Subcellular Localization	Perinuclear region
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	Inhibits both auto-ubiquitination of PARK2 and ubiquitination of target proteins by PARK2 (By similarity). May function as a nucleotide exchange factor for HSP/HSP70, promoting ADP release, and activating Hsp70-mediated refolding.
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.

IMAGES



IF (Immunofluorescence)

Figure 5. IF analysis of Cytokeratin 4/KRT4 using anti-Cytokeratin 4/KRT4 antibody (AAA127443).Cytokeratin 4/KRT4 was detected in a paraffin-embedded section of human prostatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-Cytokeratin 4/KRT4 Antibody (AAA127443) 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.



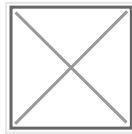
IHC (Immunohistochemistry)

Figure 4. IHC analysis of Cytokeratin 4/KRT4 using anti-Cytokeratin 4/KRT4 antibody (AAA127443).Cytokeratin 4/KRT4 was detected in a paraffin-embedded section of human prostate adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Cytokeratin 4/KRT4 Antibody (AAA127443) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



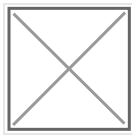
IHC (Immunohistochemisry)

Figure 3. IHC analysis of CytoKeratin 4/KRT4 using anti-CytoKeratin 4/KRT4 antibody (AAA127443).CytoKeratin 4/KRT4 was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CytoKeratin 4/KRT4 Antibody (AAA127443) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CytoKeratin 4/KRT4 using anti-CytoKeratin 4/KRT4 antibody (AAA127443).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 Hacat 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-CytoKeratin 4/KRT4 antigen affinity purified polyclonal antibody (#AAA127443) 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 CytoKeratin 4/KRT4 at approximately 56 kDa. The expected band size for CytoKeratin 4/KRT4 is at 56 kDa.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of CytoKeratin 4/KRT4 using anti-CytoKeratin 4/KRT4 antibody (AAA127443).CytoKeratin 4/KRT4 was detected in a paraffin-embedded section of human endometrioid adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CytoKeratin 4/KRT4 Antibody (AAA127443) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-KRT4 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-KRT4 antibody	Primary Antibodies ; Interleukins
References	1. Barletta, C., Batticane, N., Ragusa, R. M., Leube, R., Peschle, C., Romano, V. Subchromosomal localization of two human cytokeratin genes (KRT4 and KRT15) by in situ hybridization. <i>Cytogenet. Cell Genet.</i> 54: 148-150, 1990. 2. Barletta, C., Batticane, N., Ragusa, R. M., Leube, R. E., Franke, W. W., Peschle, C., Romano, V. Sub-chromosomal localization of human cytokeratin 4, 15, and 19 genes. (Abstract) <i>Cytogenet. Cell Genet.</i> 51: 958 only, 1989. 3. Chao, S.-C., Tsai, Y.-M., Yang, M.-H., Lee, J. Y.-Y. A novel mutation in the keratin 4 gene causing white sponge naevus. <i>Brit. J. Derm.</i> 148: 1125-1128, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	82654947
NCBI GeneID	3851
UniProt Accession #	P19013 ; Q6GTR8 ; Q96LA7 ; Q9BTL1 ; F8VS64
Molecular Weight	520
NCBI Official Full Name	Keratin, type II cytoskeletal 4
NCBI Official Synonym Full Names	keratin 4
NCBI Official Symbol	KRT4

NCBI Official Synonym Symbols	K4; CK4; CK-4; CYK4; WSN1
NCBI Protein Information	keratin, type II cytoskeletal 4; cytokeratin 4; type-II keratin Kb4
UniProt Protein Name	Keratin, type II cytoskeletal 4
UniProt Gene Name	KRT4
UniProt Synonym Gene Names	CYK4; CK-4; K4
UniProt Entry Name	K2C4_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cytokeratin-4-kr4-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/127443>