Rabbit anti-Human C18orf22/RBFA Polyclonal Antibody | anti-C18orf22/RBFA antibody

Anti-C18orf22/RBFA Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19984	**Rabbit**	**Human**	**Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA**

PRODUCT SYNONYMS

C18orf22/RBFA; Polyclonal Antibody; Anti-C18orf22/RBFA Antibody Picoband; Follicular dendritic cell secreted peptide; RNA-binding protein 47; RNA-binding motif protein 47; RBM47; anti-C18orf22/RBFA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Abundantly expressed in tonsil, lymph node, and trachea; strong expression in prostate; lower expression in thyroid, stomach, and colon.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-C18orf22/RBFA antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human C18orf22/RBFA recombinant protein (Position: L15-D319).
Subcellular Localization	Nucleus
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	Can bind to the surface of B-lymphoma cells, but not T- lymphoma cells, consistent with a function as a secreted mediator acting upon B-cells.
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



FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of MCF-7 cells using anti-C18orf22/RBFA antibody (AAA19984).Overlay histogram showing MCF-7 cells stained with AAA19984 (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-C18orf22/RBFA Antibody (AAA19984, 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 8. IF analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (AAA19984).C18orf22/RBFA was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-C18orf22/RBFA Antibody (AAA19984) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-C18orf22/RBFA Antibody (AAA19984) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-C18orf22/RBFA Antibody (AAA19984) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-C18orf22/RBFA Antibody (AAA19984) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-C18orf22/RBFA Antibody (AAA19984) 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 (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-C18orf22/RBFA Antibody (AAA19984) 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 (Lane 2: human MOLT-4 whole cell lysates,Lane 3: human HepG2 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-C18orf22/RBFA antigen affinity purified polyclonal antibody (#AAA19984) 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 C18orf22/RBFA at approximately 40 kDa. The expected band size for C18orf22/RBFA is at 38 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-C18orf22/RBFA 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-C18orf22/RBFA antibody	Primary Antibodies; Chromatin Binding Proteins; DNA/RNA Binding; Epigenetics and Nuclear Signaling
References	1. Kuwasako, K. , Suzuki, S. , Nameki, N. , Takizawa, M. , Takahashi, M. , & Tsuda, K. , et al. (2022). 1h, 13c, and 15n resonance assignments and solution structures of the kh domain of human ribosome binding factor a, mtrbfa, involved in mitochondrial ribosome biogenesis. Biomolecular NMR Assignments, 1-7.2. Rozanska, A. , Richter-Dennerlein, R. , Rorbach, J. , Gao, F. , & Lightowlers, R. N. . (2017). The human rna-binding protein rbfa promotes the maturation of the mitochondrial ribosome. Biochemical Journal, 474(13), 2145-2158.3. Hauri, S. , Wepf, A. , Drogen, A. V. , Varjosalo, M. , & Gstaiger, M. . (2013). Interaction proteome of human hippo signaling: modular control of the co-activator yap1. Molecular Systems Biology, 9(1), 713.

NCBI AND UNIPROT INFORMATION

NCBI GI #	285395028

NCBI GeneID	79863
NCBI Accession #	NP_001165438.1
NCBI GenBank Nucleotide #	NM_001171967.1
UniProt Accession #	Q8N0V3; Q6PF07; Q8WZ65; Q9H776
Molecular Weight	38,359 Da
NCBI Official Full Name	putative ribosome-binding factor A, mitochondrial isoform 2
NCBI Official Synonym Full Names	ribosome binding factor A (putative)
NCBI Official Symbol	RBFA
NCBI Official Synonym Symbols	HsT169; C18orf22
NCBI Protein Information	putative ribosome-binding factor A, mitochondrial
UniProt Protein Name	Putative ribosome-binding factor A, mitochondrial
UniProt Gene Name	**RBFA**
UniProt Synonym Gene Names	C18orf22
UniProt Entry Name	RBFA_HUMAN

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Online datasheet: https://stage.aaabiotech.com/polyclonal/c18orf22-rbfa-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19984