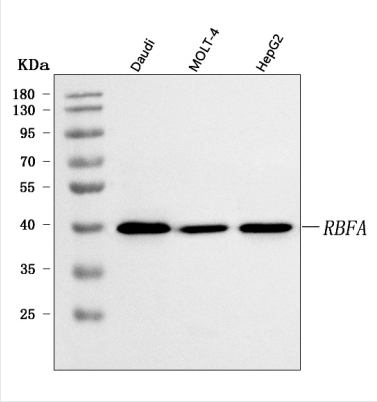
C18ORF22/RBFA Antibody – Rabbit Polyclonal

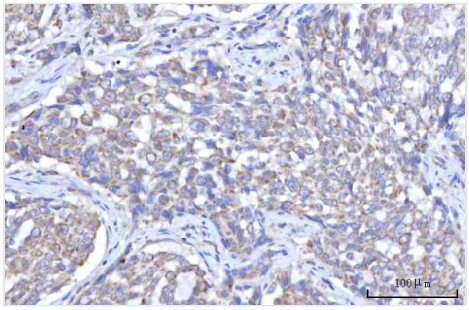
PRODUCT OVERVIEW

Product Name	C18orf22/RBFA, Polyclonal Antibody
Full Product Name	Anti-C18orf22/RBFA Antibody Picoband
Product Gene Name	anti-C18orf22/RBFA antibody
Product Synonym Names	Follicular dendritic cell secreted peptide; RNA-binding protein 47; RNA-binding protein 47; RNA-binding motif protein 47; RBM47
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Abundantly expressed in tonsil, lymph node, and trachea; strong expression in prostate; lower expression in thyroid, stomach, and colon.
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.
Molecular Weight	38,359 Da
3D Structure	ModBase 3D Structure for Q8N0V3
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.
Product Categories/Family for anti-C18orf22/RBFA antibody	Primary Antibodies; Chromatin Binding Proteins; DNA/RNA Binding; Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-C18orf22/RBFA antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-C18orf22/RBFA antibody	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
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.

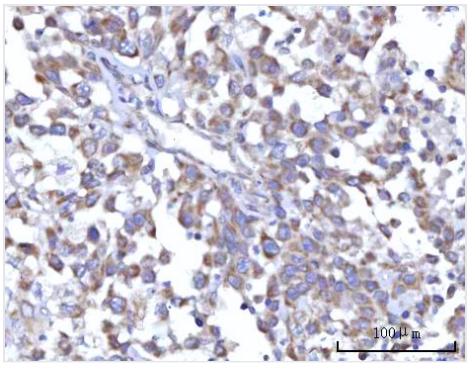
Product References and Citations for anti-C18orf22/RBFA antibody	1. Kuwasako, K. , Suzuki, S. , Nameki, N. , Takizawa, M. , Takahashi, M. , & Tsuda, K. , et al. (2022). 1h, 13c, and 15n resonance assignments and solution structures of the kh domain of human ribosome binding factor a, mtrbfa, involved 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.
Other Notes	Small volumes of anti-C18orf22/RBFA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for C18orf22/RBFA purchase	MBS1759322 is an antibody targeting C18orf22/RBFA. Also known as Anti-C18orf22/RBFA Antibody Picoband. Reactive in Human. Host: Rabbit.



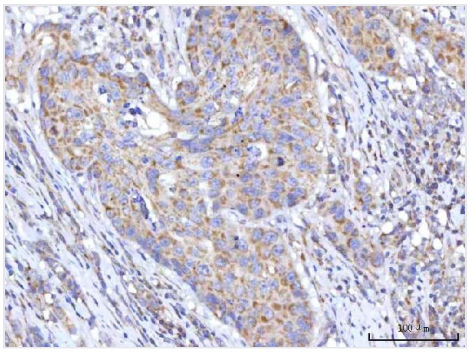
Western Blot (WB) of anti-C18orf22/RBFA antibody
Figure 1. Western blot analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (MBS1759322).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Daudi whole cell lysates,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 (#MBS1759322) 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 (#MBS176460) 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.



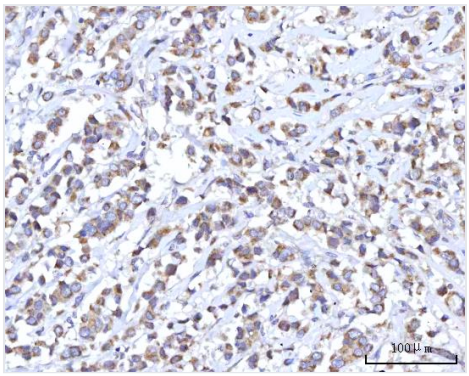
Immunohistochemistry (IHC) of anti-C18orf22/RBFA antibody
Figure 2. IHC analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (MBS1759322).C18orf22/RBFA was detected in a paraffin-embedded section of human lung squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA 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-C18orf22/RBFA Antibody (MBS1759322) 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 (#MBS176453) with DAB as the chromogen.



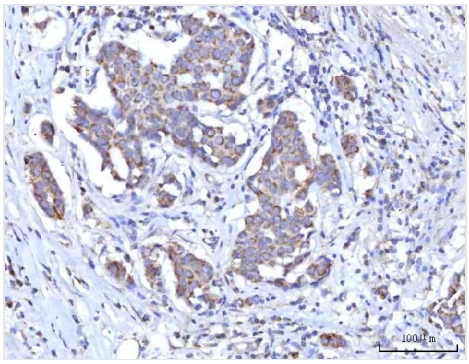
Immunohistochemistry (IHC) of anti-C18orf22/RBFA antibody
Figure 3. IHC analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (MBS1759322).C18orf22/RBFA was detected in a paraffin-embedded section of human undifferentiated carcinoma of pancreas tissue. Heat mediated antigen retrieval was performed 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-C18orf22/RBFA Antibody (MBS1759322) 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 (#MBS176453) with DAB as the chromogen.



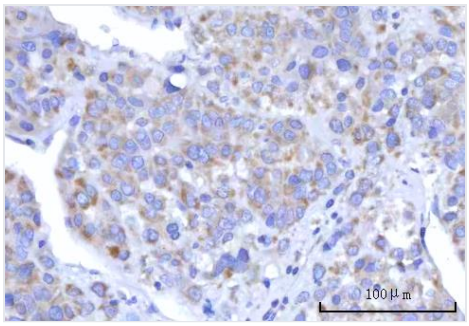
Immunohistochemistry (IHC) of anti-C18orf22/RBFA antibody
Figure 4. IHC analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (MBS1759322).C18orf22/RBFA was detected in a paraffin-embedded section of human appendix adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (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-C18orf22/RBFA Antibody (MBS1759322) 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 (#MBS176453) with DAB as the chromogen.



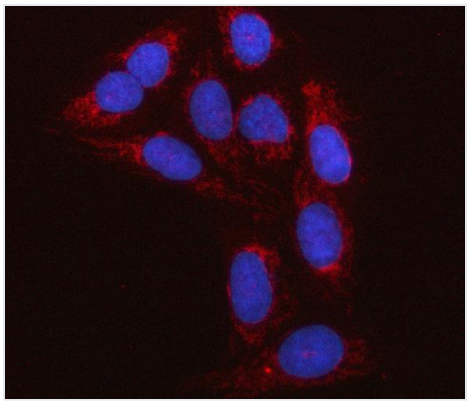
Immunohistochemistry (IHC) of anti-C18orf22/RBFA antibody
Figure 5. IHC analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (MBS1759322).C18orf22/RBFA was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-C18orf22/RBFA Antibody (MBS1759322) 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 (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-C18orf22/RBFA antibody
Figure 6. IHC analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (MBS1759322).C18orf22/RBFA was detected in a paraffin-embedded section of human esophageal squamous carcinoma 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-C18orf22/RBFA Antibody (MBS1759322) 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 (#MBS176453) with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-C18orf22/RBFA antibody
Figure 7. IHC analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (MBS1759322).C18orf22/RBFA was detected in a paraffin-embedded section of human liver 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 2ug/ml rabbit anti-C18orf22/RBFA Antibody (MBS1759322) 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 (#MBS176453) with DAB as the chromogen.



Immunofluorescence (IF) of anti-C18orf22/RBFA antibody
Figure 8. IF analysis of C18orf22/RBFA using anti-C18orf22/RBFA antibody (MBS1759322).C18orf22/RBFA was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-C18orf22/RBFA Antibody (MBS1759322) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C18orf22/RBFA. It may not necessarily be applicable to this product.

NCBI GI #	285395028
NCBI GeneID	79863
NCBI Accession #	NP_001165438.1
UniProt Primary Accession #	Q8N0V3
UniProt Secondary Accession #	Q6PF07; Q8WZ65; Q9H776
UniProt Related Accession #	Q8N0V3
GenBank Nucleotide #	NM_001171967.1
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
UniProt Protein Name	Putative ribosome-binding factor A, mitochondrial
UniProt Gene Name	RBFA
UniProt Synonym Gene Names	C18orf22
UniProt Entry Name	RBFA_HUMAN
NCBI Protein Information	putative ribosome-binding factor A, mitochondrial
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