

Product Datasheet

MRPL12 Antibody (3B12-1A3) - Azide and BSA Free H00006182-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00006182-M01

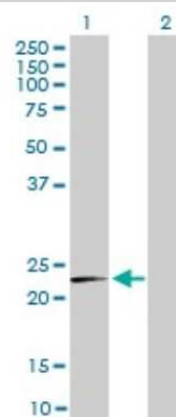
MRPL12 Antibody (3B12-1A3) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3B12-1A3
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	6182
Gene Symbol	MRPL12
Species	Human
Specificity/Sensitivity	MRPL12 - mitochondrial ribosomal protein L12
Immunogen	MRPL12 (AAH02344, 1 a.a. ~ 198 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MLPAAARPLWGPCGLGLRAAAFRLARRQVPCVCAVRHMRSSGHQRCEALAGA PLDNAPKEYPPKIQQLVQDIASLTLEISDLNELLKKTLLKIQDVGLVPMGGVMSG AVPAAAAQEAVEEDIPIAKERTHTFVRLTEAKPVDKVKLIKEIKNYIQGINLVQAK KLVESLPQEIKANVAKAEAEKIKAALEAVGGTVVLE
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Knockdown Validated
Application Notes	Antibody reactivity against recominant protein and cell lysate for WB. It has been used for IF, IHC-P, RNAi Validation and ELISA.

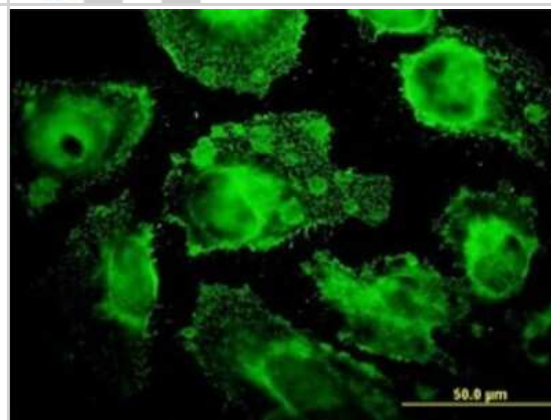


Images

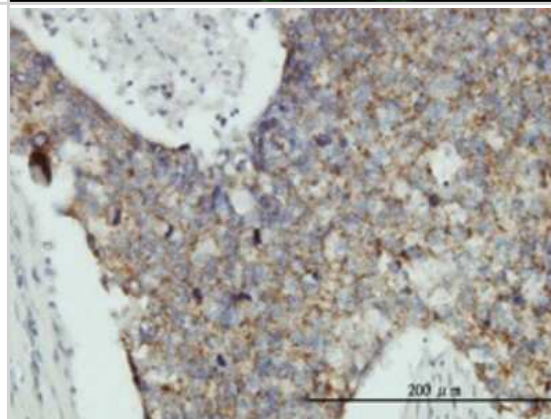
Western Blot: MRPL12 Antibody (3B12-1A3) [H00006182-M01] - Analysis of MRPL12 expression in transfected 293T cell line by MRPL12 monoclonal antibody (M01), clone 3B12-1A3. Lane 1: MRPL12 transfected lysate (21.3 kDa). Lane 2: Non-transfected lysate.



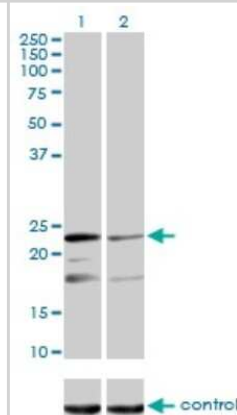
Immunocytochemistry/Immunofluorescence: MRPL12 Antibody (3B12-1A3) [H00006182-M01] - Analysis of monoclonal antibody to MRPL12 on HeLa cell. Antibody concentration 10 ug/ml.



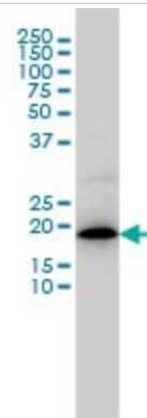
Immunohistochemistry-Paraffin: MRPL12 Antibody (3B12-1A3) [H00006182-M01] - Analysis of monoclonal antibody to MRPL12 on formalin-fixed paraffin-embedded human breast cancer tissue. Antibody concentration 3 ug/ml.



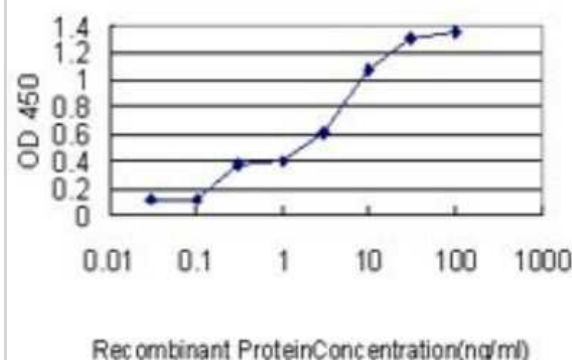
Western Blot: MRPL12 Antibody (3B12-1A3) [H00006182-M01] - Analysis of MRPL12 over-expressed 293 cell line, cotransfected with MRPL12 Validated Chimera RNAi (Cat # H00006182-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with MRPL12 monoclonal antibody (M01), clone 3B12-1A3 (Cat # H00006182-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot: MRPL12 Antibody (3B12-1A3) [H00006182-M01] - MRPL12 monoclonal antibody (M01), clone 3B12-1A3 Analysis of MRPL12 expression in COLO 320 HSR.



ELISA: MRPL12 Antibody (3B12-1A3) [H00006182-M01] - Detection limit for recombinant GST tagged MRPL12 is approximately 0.03ng/ml as a capture antibody.



Publications

Mari A, Irina A, Tim K et al. Serine palmitoyltransferase assembles at ER-mitochondria contact sites. Life Sci Alliance. 2021-11-16 [PMID: 34785538]

Xingzhao J, Lingju C, Dun S et al. MRPL12-ANT3 interaction involves in acute kidney injury via regulating MPTP of tubular epithelial cells. iScience. 2023-04-19 [PMID: 37182101]

KOnig T, Nolte H, Aaltonen MJ et al. MIROs and DRP1 drive mitochondrial-derived vesicle biogenesis and promote quality control Nature cell biology 2021-12-01 [PMID: 34873283] (SR Microscopy)

Richman TR, Davies SM, Shearwood AM et al. A bifunctional protein regulates mitochondrial protein synthesis. Nucleic Acids Res. 2014-01-31 [PMID: 24598254]

Antonicka H, Sasarman F, Nishimura T et al. The Mitochondrial RNA-Binding Protein GRSF1 Localizes to RNA Granules and Is Required for Posttranscriptional Mitochondrial Gene Expression. Cell Metab 2013-03-05 [PMID: 23473033] (ICC/IF, Human)

Chen Y, Cairns R, Papandreou I, et al. Oxygen consumption can regulate the growth of tumors, a new perspective on the warburg effect. PLoS One 4(9):e7033. 2009-09-15 [PMID: 19753307]

Wang Z, Cotney J, Shadel GS. Human mitochondrial ribosomal protein MRPL12 interacts directly with mitochondrial RNA polymerase to modulate mitochondrial gene expression. J Biol Chem;282(17):12610-8. 2007-04-27 [PMID: 17337445]



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Products Related to H00006182-M01

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00006182-P01-10ug	Recombinant Human MRPL12 GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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