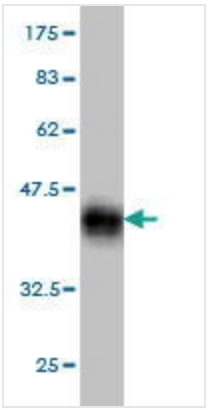
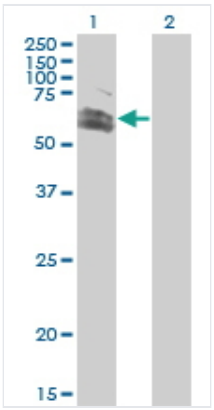
# RLIM Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

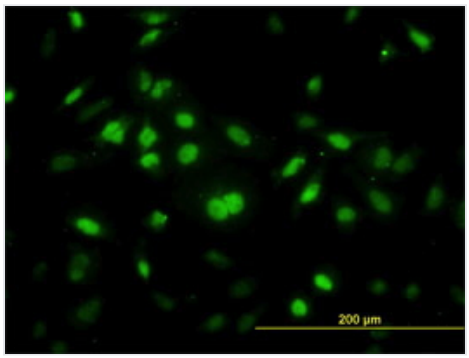
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| **Product Name** | RLIM, Monoclonal Antibody |
| **Full Product Name** | RLIM (RING Finger LIM Domain-binding Protein, R-LIM, E3 Ubiquitin-protein Ligase RLIM, LIM Domain-interacting RING Finger Protein, RING Finger Protein 12, RNF12, Renal Carcinoma Antigen NY-REN-43) (FITC) |
| **Product Gene Name** | anti-RLIM antibody |
| **Product Synonym Names** | EC=6.3.2.-; MGC15161 |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2a,k |
| **Clone Number** | 1G10 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human RNF12. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 68kDa |
| **OMIM** | 300379 |
| **3D Structure** | ModBase 3D Structure for Q9NVW2 |
| **Immunogen** | Partial recombinant corresponding to aa1-84 from human RNF12 (NP_057204) with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | MENSDSNDKGSGDQSAAQRRSQMDRLDREEAFYQFVNNLSEEDYRLMRDNNLLGTPGESTEEELLRRLQQIKEGPPPQNSDEN |
| **Conjugate** | FITC |
| **Product Categories/Family for anti-RLIM antibody** | Antibodies; Transcription Factors; Zinc (Ring) Finger |
| **Applications Tested/Suitable for anti-RLIM antibody** | ELISA (EIA), Immunofluorescence (IF), Immunoprecipitation (IP), Western Blot (WB) |
| **Application Notes for anti-RLIM antibody** | IF: 30ug/ml<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-RLIM antibody** | MBS6149362 is an antibody targeting RLIM. Also known as RLIM (RING Finger LIM Domain-binding Protein, R-LIM, E3 Ubiquitin-protein Ligase RLIM, LIM Domain-interacting RING Finger Protein, RING Finger Protein 12, RNF12, Renal Carcinoma Antigen NY-REN-43) (FITC). Reactive in Human. Host: Mouse. |
| **Other Notes** | Small volumes of anti-RLIM 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. |



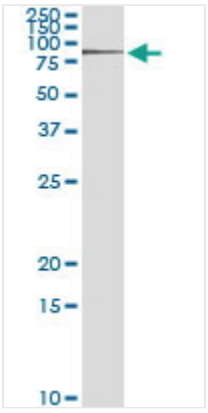

**Western Blot (WB) of anti-RLIM antibody**
Western Blot detection against Immunogen (35.24kD).



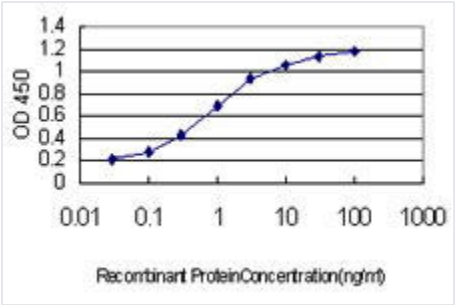

**Western Blot (WB) of anti-RLIM antibody**
Western Blot analysis of RNF12 expression in transfected 293T cell line by RNF12 monoclonal antibody. Lane 1: RNF12 transfected lysate (68.5kD). Lane 2: Non-transfected lysate.



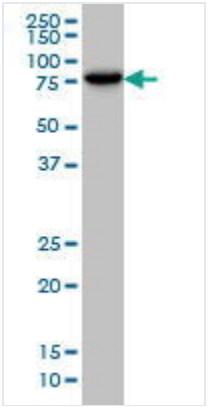

**Immunofluorescence (IF) of anti-RLIM antibody**
Immunofluorescence of monoclonal antibody to RNF12 on HeLa cell. [antibody concentration 30ug/ml].




**Immunoprecipitation (IP) of anti-RLIM antibody**
Immunoprecipitation of RNF12 transfected lysate using RNF12 monoclonal antibody and Protein A Magnetic Bead and immunoblotted with RNF12 rabbit polyclonal antibody.




**Testing Data of anti-RLIM antibody**
Detection limit for recombinant GST tagged RNF12 is ~0.03ng/ml as a capture antibody.




**Western Blot (WB) of anti-RLIM antibody**
RNF12 monoclonal antibody, Western Blot analysis of RNF12 expression in HeLa NE.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 34452684 |
| **NCBI GeneID** | 51132 |
| **NCBI Accession #** | NP_057204 |
| **UniProt Primary Accession #** | Q9NVW2 |

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| **UniProt Related Accession #** | Q9NVW2 |
| **GenBank Nucleotide #** | NM_016120 |
| **NCBI Official Full Name** | E3 ubiquitin-protein ligase RLIM |
| **NCBI Official Synonym Full Names** | ring finger protein, LIM domain interacting |
| **NCBI Official Symbol** | RLIM |
| **NCBI Official Synonym Symbols** | MRX61; RNF12; TOKAS; NY-REN-43 |
| **UniProt Protein Name** | E3 ubiquitin-protein ligase RLIM |
| **UniProt Synonym Protein Names** | LIM domain-interacting RING finger protein; RING finger LIM domain-binding protein; R-LIM; RING finger protein 12; Renal carcinoma antigen NY-REN-43 |
| **Protein Family** | E3 ubiquitin-protein ligase |
| **UniProt Gene Name** | RLIM |
| **UniProt Synonym Gene Names** | RNF12; R-LIM |
| **UniProt Entry Name** | RNF12_HUMAN |
| **NCBI Protein Information** | E3 ubiquitin-protein ligase RLIM |
| **NCBI Summary for RLIM** | The protein encoded by this gene is a RING-H2 zinc finger protein. It has been shown to be an E3 ubiquitin protein ligase that targets LIM domain binding 1 (LDB1/CLIM), and causes proteasome-dependent degradation of LDB1. This protein and LDB1 are co-repressors of LHX1/LIM-1, a homeodomain transcription factor. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Feb 2009] |
| **UniProt Comments for RLIM** | RNF12: E3 ubiquitin-protein ligase. Acts as a negative coregulator for LIM homeodomain transcription factors by mediating the ubiquitination and subsequent degradation of LIM cofactors LDB1 and LDB2 and by mediating the recruitment the SIN3a/histone deacetylase corepressor complex. Ubiquitination and degradation of LIM cofactors LDB1 and LDB2 allows DNA-bound LIM homeodomain transcription factors to interact with other protein partners such as RLIM. Plays a role in telomere length-mediated growth suppression by mediating the ubiquitination and degradation of TERF1. By targeting ZFP42 for degradation, acts as an activator of random inactivation of X chromosome in the embryo, a stochastic process in which one X chromosome is inactivated to minimize sex-related dosage differences of X-encoded genes in somatic cells of female placental mammals. Belongs to the RNF12 family.<br><br>Protein type: Ubiquitin ligase; Ubiquitin conjugating system; Ligase; EC 6.3.2.-; Transcription, coactivator/corepressor<br><br>Chromosomal Location of Human Ortholog: Xq13-q21<br><br>Cellular Component: nucleoplasm; transcriptional repressor complex; cytoplasm; nucleus<br><br>Molecular Function: zinc ion binding; ubiquitin-protein ligase activity; transcription corepressor activity; ligase activity<br><br>Biological Process: ubiquitin-dependent protein catabolic process; transcription, DNA-dependent; negative regulation of transcription factor activity; protein ubiquitination; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent |
| **Research Articles on RLIM** | **1.** Results from a study on gene expression variability markers in early-stage human embryos shows that RLIM is a putative expression variability marker for the 3-day, 8-cell embryo stage. |
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