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URM1 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM1883a

Specification

URM1 Antibody - Product Information

Application	**WB,E**
Primary Accession	Q9BTM9
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgM,K**
Calculated MW	**11380**

URM1 Antibody - Additional Information

Gene ID 81605

Other Names
Ubiquitin-related modifier 1 {ECO:0000255|HAMAP-Rule:MF_03048}, URM1 {ECO:0000255|HAMAP-Rule:MF_03048}, C9orf74

Target/Specificity
This URM1 monoclonal antibody is generated from mouse immunized with URM1 recombinant protein.

Dilution
WB~~1:100

Format
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
URM1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

URM1 Antibody - Protein Information

Name URM1 {ECO:0000255|HAMAP-Rule:MF_03048}

Synonyms C9orf74

Function Acts as a sulfur carrier required for 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Serves as sulfur donor in tRNA

2-thiolation reaction by being thiocarboxylated (-COSH) at its C-terminus by MOCS3. The sulfur is then transferred to tRNA to form 2-thiolation of mcm(5)S(2)U. Also acts as a ubiquitin-like protein (UBL) that is covalently conjugated via an isopeptide bond to lysine residues of target proteins such as MOCS3, ATPBD3, CTU2, USP15 and CAS. The thiocarboxylated form serves as substrate for conjugation and oxidative stress specifically induces the formation of UBL-protein conjugates.

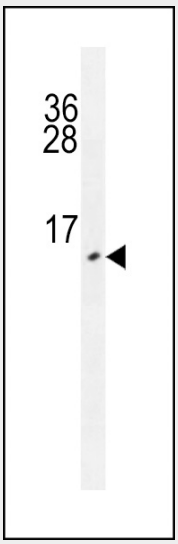
Cellular Location
Cytoplasm.

URM1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

URM1 Antibody - Images



URM1 antibody (Cat. #AM1883a) western blot analysis in HepG2 cell line lysates (35µg/lane).This demonstrates the URM1 antibody detected the URM1 protein (arrow).

URM1 Antibody - Background

Acts as a sulfur carrier required for 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of tRNA(Lys), tRNA(Glu) and tRNA(Gln). Serves as sulfur donor in tRNA 2-thiolation reaction by thiocarboxylated (-COSH) at its C-terminus by MOCS3. The sulfur is then transferred to tRNA to form 2-thiolation of mcm(5)S(2)U. May also act as an ubiquitin-like protein that is covalently conjugated to other proteins; the relevance of such function is however unclear in vivo.

URM1 Antibody - References

Schlieker, C.D., et al. Proc. Natl. Acad. Sci. U.S.A. 105(47):18255-18260(2008)
Schmitz, J., et al. Biochemistry 47(24):6479-6489(2008)
Xu, J., et al. Proc. Natl. Acad. Sci. U.S.A. 103(31):11625-11630(2006)
Singh, S., et al. Protein Sci. 14(8):2095-2102(2005)
Humphray, S.J., et al. Nature 429(6990):369-374(2004)