48810 Kato Road, Suite 100E & 200E
Fremont, CA 94538, USA
Tel : +1 (800) 421-4149

Hsa-miR-200a Probe

Catalog No. FM200a-25
Description: one vial of 0.3 mL of probe in hybridization buffer

Intended Use:
This probe is intended for research use only.

Principle:
MicroRNAs (miRNAs) are endogenous, non-coding small RNA molecules that play important role in controlling gene expression. They are involved in multiple biological functions and disease progression including cancer. miRNAs either act as tumor suppressors or oncogenes depending on function of their target gene. Aberrant expression of miRNA has been reported in different cancer types; hence, *in situ* detection of miRNA provides important insight for diagnosis, prognosis, and disease management. miR200a belongs to miR-200 family which is strongly implicated in the metastasis of cancer. miR-200a has been reported to exert its influence on epithelial-mesenchymal transition in breast cancer, inhibits cell growth in meningiomas, and regulates migration of hepatocellular carcinoma.

Please visit the following link for more information about Hsa-miR-200a. https://www.ncbi.nlm.nih.gov/gene/406983

Summary and Explanation
miRNAs play an important role in many biological processes, including differentiation and development, cell signaling, and response to infection. Recent research have shown that human miRNA genes are frequently located in cancer-associated genomic regions, while perturbed miRNA expression patterns have been observed in many human cancers. A number of oncogenes and tumor suppressor genes were found to be the targets of miRNAs and global miRNA expression signatures were able to distinguish cancerous and non-cancerous tissues. Therefore, miRNA profiles can serve as highly specific markers for diagnosis, prognosis, disease monitoring, as well as prediction of therapeutic response. miRNAs are remarkably stable molecules and are well preserved in formalin-fixed, paraffin-embedded (FFPE) as well as frozen specimens. Early diagnosis, detection, and assessment of the disease progression are essential for disease management, especially in tumor patients, where timely therapeutic interventions are extremely critical.

Quality Control
This product is quality control tested at BioGenex according to the suggested procedure. The recommended positive control tissue(s) for this miRNA probe are breast, prostate, and intestine (FB-HM200A).

Recommended protocol and parameters for Hsa-miR-200a probe
Automated Protocol:
https://omicsveu.com/wp-content/uploads/Brochures/914-0071.0.pdf

Manual Protocol:
https://omicsveu.com/wp-content/uploads/Brochures/914-0072.0.pdf
For more information:
https://omicsveu.com/wp-content/uploads/Brochures/914-0073.0.pdf

Bibliography

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2. https://doi.org/10.1186/1423-0127-19-90
3. https://doi.org/10.1016/j.ymeth.2007.10.008
4. 10.1007/978-1-60761-657-3_18
5. 10.1007/s13238-013-3001-5
6. 10.1261/rna.2006511
7. https://doi.org/10.1007/s11515-011-0990-4
8. 10.1074/jbc.M110.133744
9. 10.3892/or.2018.6925

8°C 2°C	Temperature Limitation	RUO	For Research Use Only
	Use By Date	LOT	Batch Code
NON STERILE	Non-Sterile		Consult Instructions for Use
REF	Catalogue Number		BioGenex

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Address: 48810 Kato Road, Suite 100E & 200E
Fremont, CA 94538, USA
Tel: +1 (800) 421-4149
Contact: customerservice@omicsveu.com

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