

Hsa-miR-483 Probe

Catalog No. FM483-25

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. miR-483 is located within intron 2 of the IGF2 locus. miR-483-3p is over expressed in 100% of Wilms' tumors. miR-483-5p identifies a subset of poorer prognosis adrenocortical carcinomas. The expression level of miR-483-5p alone can accurately diagnose a tumor as benign or malignant. miR-483 is overexpressed in adrenocortical carcinomas compared with adrenocortical adenoma. miR-483 is also highly expressed in colon, breast, and liver.

Please visit the following link for more information about Hsa-miR-483. <https://www.ncbi.nlm.nih.gov/gene/619552>

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 lymph node and testis (FB-HM483).

Recommended protocol and parameters for Hsa-miR-483 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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5. [10.1007/s13238-013-3001-5](https://doi.org/10.1007/s13238-013-3001-5)
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8. [10.1158/0008-5472.CAN-09-4456](https://doi.org/10.1158/0008-5472.CAN-09-4456)
9. [10.1158/1078-0432.CCR-09-1587](https://doi.org/10.1158/1078-0432.CCR-09-1587)

	Temperature Limitation		For Research Use Only
	Use By Date		Batch Code
	Non-Sterile		Consult Instructions for Use
	Catalogue Number		BioGenex

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