

DATA SHEET
Hsa-miR-144Probe

Catalog No HM144-100	Description One vial of 0.650 ml of probe in hybridization buffer
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Analyte Specific Reagent. Analytical and performance characteristics are not established.

Doc. No. 932-HM144-100 Rev : D
Date of release: 12-Aug-2020

Description

The Hsa-miR-144 probe has been designed from mature human miR-144 sequence. This fluoresceinated probe is provided in a hybridization buffer for localization of miRNA in FFPE tissue by *In Situ* hybridization.

Specifications

The Hsa-miR-144 identifies mature miR-144 sequences in formalin-fixed, paraffin-embedded human tissues and/or freshly prepared frozen tissues by *in situ* hybridization. This probe does not react with normal human mRNA or nuclear DNA present in tissues.

Storage and Handling

Store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. The reagent must be brought to room temperature before use. (Important! The presence of precipitates induces background staining).

Precautions:

For professional use. The probe contains formamide. Formamide is classified as a teratogen. Pregnant workers should keep exposure to a minimum. Avoid inhalation, ingestion, and contact with unprotected skin. If skin contact occurs, wash thoroughly with soap and water. For more information, refer to the Material Safety Data Sheet, which is available upon request.

Quality Control

Each lot of this micro RNA probe is tested by *In Situ* hybridization for Quality Control purposes. Refer to the BioGenex Quality Control Testing Conditions table for additional information.

References

1. Lorio MV and Croce CM. (2012). MicroRNA dysregulation in cancer: diagnostics, monitoring and therapeutics. A comprehensive review. **EMBO Mol Med** 4, 143–159.
2. Chen PS, Su JL, and Hung MC. (2012). Dysregulation of Micro RNAs in cancer. **Journal of Biomedical Science**, 19:90.
3. Nuovo GJ. (2008). In situ detection of precursor and mature microRNAs in paraffin embedded, formalin fixed tissues and cell preparations. **Methods** 44,39–46.
4. Song R. et al. (2010). *In situ* hybridization detection of microRNAs. **Methods Mol Biol.** 629, 287-94.
5. Akiyoshi,S. et al., Clinical significance of miR-144-ZFX axis in disseminated tumour cells in bone marrow in gastric cancer cases. *Br. J. 2012;Cancer*, 107:1345–1353

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6. Cheng C, et al., MicroRNA-144 Is Regulated by Activator Protein-1 (AP-1) and Decreases Expression of Alzheimer's Disease-related A Disintegrin And Metalloprotease 10 (ADAM10) J. Biol. Chem 2013;May 10;288(19):13748-61
7. Iwaya T. et al., Downregulation of *miR-144* is associated with colorectal cancer progression via activation of *mTOR* signaling pathway. 2013; Dec;33(12):2391-7

BioGenex Quality Control Testing Conditions

Parameter	Conditions used
Control Tissue	URINARY BLADDER/PROSTATE FB-HM144).
Tissue Type	Formalin-fixed, paraffin-embedded cancer tissues