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DATA SHEET

Hsa-miR-204Probe

Catalog No	Description
HM204-100	One vial of 0.650 ml of probe in hybridization buffer

Analyte Specific Reagent. Analytical and performance characteristics are not established.

Doc. No. 932-HM204-100 Rev : D
Date of release: 14-Aug-2020

Description

The Hsa-miR-204 probe has been designed from mature human miR-204 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-204 identifies mature miR-204 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

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4. Song R. et al. (2010). *In situ* hybridization detection of microRNAs. **Methods Mol Biol**. 629, 287-94.

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6. Conte I, Carrella S, Avellino R, et al. miR-204 is required for lens and retinal development via Meis2 targeting. ProcNatlAcadSci USA. 2010;107:15491–15496.
7. Courboulin A, Paulin R, Giguere NJ, et al. Role for miR-204 in human pulmonary arterial hypertension. J Exp Med. 2011;208:535–548.
8. Cui RR, Li SJ, Liu LJ, Yi L, Liang QH, et al. (2012) MicroRNA-204 regulates vascular smooth muscle cell calcification in vitro and in vivo. Cardiovasc Res 96:320–329.
9. Gong M, Ma J, Li M, Zhou M, Hock JM, et al. (2012) MicroRNA-204 critically regulates carcinogenesis in malignant peripheral nerve sheath tumors. NeuroOncol 14: 1007–1017.
10. Li G, Luna C, Qiu J, Epstein DL, Gonzalez P (2011) Role of miR-204 in the regulation of apoptosis, endoplasmic reticulum stress response, and inflammation in human trabecular meshwork cells. Invest Ophthalmol Vis Sci 52: 2999–3007.
11. Wang FE, Zhang C, Maminishkis A, et al. MicroRNA-204/211 alters epithelial physiology. FASEB J. 2010;24:1552–1571.

BioGenex Quality Control Testing Conditions

Parameter	Conditions used
Control Tissue	BREAST (FB-HM204)
Tissue Type	Formalin-fixed, paraffin-embedded cancer tissues