

**DATA SHEET**  
**Hsa-miR-130b fluoresceinated oligo probe****Catalog No.**  
**HM130b-100****Description**  
One vial of 0.650 ml of probe in hybridization buffer**Analyte Specific Reagent. Analytical and performance characteristics are not established.**

Doc. No. 932-HM130b-100

Rev. B

Date of release: 12-Aug-2020

**Description**

The Hsa-miR-130b probe has been designed from mature human miR-130b 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-130b identifies mature miR-130b 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 miRNA 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. Lai KW, Koh KX, Loh M, Tada K, Subramaniam MM, Lim XY, et al. MicroRNA-130b regulates the tumour suppressor RUNX3 in gastric cancer. *Eur J Cancer*. 2010;46(8):1456-63
2. Li BL, Lu C, Lu W, Yang TT, Qu J, Hong X, et al. miR-130b is an EMT-related microRNA that targets DICER1 for aggression in endometrial cancer. *Med Oncol*. 2013;30(1):484
3. Ma S, Tang KH, Chan YP, Lee TK, Kwan PS, Castilho A, et al. miR-130b Promotes CD133(+) liver tumor-initiating cell growth and self-renewal via tumor protein 53-induced nuclear protein 1. *Cell Stem Cell*. 2010;7(6):694-707
4. Yang C, Cai J, Wang Q, Tang H, Cao J, Wu L, et al. Epigenetic silencing of miR-130b in ovarian cancer promotes the development of multidrug resistance by targeting colony-stimulating factor 1. *Gynecol Oncol*. 2012;124(2):325-34
5. Yu T, Cao R, Li S, Fu M, Ren L, Chen W, Zhu H, Zhan Q, Shi R. MiR-130b plays an oncogenic role by repressing PTEN expression in esophageal squamous cell carcinoma cells. *BMC Cancer*. 2015 Jan 31; 15:29
6. Wang WY, Zhang HF, Wang L, Ma YP, Gao F, Zhang SJ, Wang LCHigh expression of microRNA-130b correlates with poor prognosis of patients with hepatocellular carcinoma. *Diagn Pathol*. 2014 Aug 15;9:160
7. Tu K, Zheng X, Dou C, Li C, Yang W, Yao Y, Liu Q MicroRNA-130b promotes cell aggressiveness by inhibiting peroxisome proliferator-activated receptor gamma in human hepatocellular carcinoma. *Int J Mol Sci*. 2014 Nov 7;15(11):20486-99

**BioGenex Quality Control Testing Conditions**

Parameter	Conditions used
Control Tissue	Ca. Esophagus (FB-HM130B)
Tissue Type	Formalin-fixed, paraffin-embedded cancer tissues