

DATA SHEET mRNA-BRCA2 probe

Catalog No.
PR269-100

Description
One vial of 0.650 ml of probe in hybridizationbuffer

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

Doc. No. 932-PR269-100

Rev. B

Date of release: 20-Aug-2020

Description

The official name of this gene is “breast cancer 2.” The *BRCA2* gene provides instructions for making a protein that acts as a tumor suppressor. Tumor suppressor proteins help prevent cells from growing and dividing too rapidly or in an uncontrolled way.

The *BRCA2* protein is involved in repairing damaged DNA. In the nucleus of many types of normal cells, the *BRCA2* protein interacts with several other proteins to mend breaks in DNA.

Specifications

Messenger RNA (mRNA) is a subtype of RNA. An mRNA molecule carries a portion of the DNA code to other parts of the cell for processing. mRNA is created during transcription. During the transcription process, a single strand of DNA is decoded by RNA polymerase, and mRNA is synthesized. Physically, mRNA is a strand of nucleotides known as ribonucleic acid, and is single-stranded.

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 mRNA 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. Silva JM, Dominguez G, Silva J, et al: Detection of epithelial messenger RNA in the plasma of breast cancer patients is associated with poor prognosis tumor characteristics. *Clin Cancer Res* 7:2821-2825, 2001
2. Pawlak A, Wu SJ, Bulle F, Suzuki A, Chikhi N, Ferry N. Different gamma-glutamyl transpeptidase mRNAs are expressed in human liver and kidney. *Biochem Biophys Res Commun* 1989; 164: 912-918.
3. Rose PG, Shrigley R, Wiesner GL. Germline *BRCA2* mutation in a patient with fallopian tube carcinoma: a case report. *Gynecol Oncol* 2000;77:319-20.

BioGenex Quality Control Testing Conditions

Parameter	Conditions used
Control Tissue	Colon Carcinoma (PR-269)
Tissue Type	Formalin-fixed, paraffin-embedded cancer tissues