

## Anti-Cytokeratin 19 KRT19 Antibody Picoband® (monoclonal, 3D4) PE Conjugated

Catalog Number: M02101-2-PE

### About KRT19

Keratin, type I cytoskeletal 19 is a protein that in humans is encoded by the KRT19 gene. The protein encoded by this gene is a member of the keratin family. It is specifically expressed in the periderm, the transiently superficial layer that envelops the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. Due to its high sensitivity, KRT19 is the most used marker for the RT-PCR-mediated detection of tumor cells disseminated in lymph nodes, peripheral blood, and bone marrow of breast cancer patients. Keratin 19 is often used together with keratin 8 and keratin 18 to differentiate cells of epithelial origin from hematopoietic cells in tests that enumerate circulating tumor cells in blood.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-Cytokeratin 19 KRT19 Antibody Picoband® (monoclonal, 3D4) PE Conjugated                                 |
| Reactive Species     | Human  |
| Application          | Flow Cytometry   |
| Clonality            | Monoclonal 3D4   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.         |
| Host                 | Mouse  |
| Uniprot ID           | P08727   |

### Technical Details

|                  |  |
|------------------|--|
| Immunogen        | A synthetic peptide corresponding to a sequence at the C-terminus of human Cytokeratin 19, different from the related mouse and rat sequences by nine amino acids. |
| Cross Reactivity | No cross-reactivity with other proteins.   |
| Isotype          | Mouse IgG1   |
| Form             | Liquid   |
| Concentration    | 0.5 mg/mL  |
| Purification     | Immunogen affinity purified.   |
| Conjugate        | PE<br>Excitation Wavelength: 566 nm  |

|                     |  |
|---------------------|--|
|                     | Emission Wavelength: 574 nm  |
| Suggested Dilutions | Flow Cytometry, Optimal dilutions should be determined by end users. |

## 5 Publications Citing This Product

1. PubMed ID: 29494688, Wang W, Said A, Wang B, Qu G, Xu Q, Liu B, Shen Z. PLoS One. 2018 Mar 1;13(3):e0193876. doi: 10.1371/journal.pone.0193876. eCollection 2018. Establishment and evaluation of the goose embryo epithelial (GEE) cell line as a new model for propagation...
2. PubMed ID: 28656299, Quan, J., Du, Q., Hou, Y., Wang, Z., & Zhang, J. (2017). Utilization of E-cadherin by monocytes from tumour cells plays key roles in the progression of bone invasion by oral squamous cell carcinoma. Oncology Reports, 38(2), 850-858. Advance online...
3. PubMed ID: 24963492, Li M, Zhang B, Zhang Z, Liu X, Qi X, Zhao J, Jiang Y, Zhai H, Ji Y, Luo D. Biomed Res Int. 2014;2014:981261. Doi: 10.1155/2014/981261. Epub 2014 May 22. Stem Cell-Like Circulating Tumor Cells Indicate Poor Prognosis In Gastric Cancer.

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