

PRODUCT SPECIFICATIONS

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|--------------------------------|---|
| Name | Anti-h CA15-3 4404 SPTN-5 |
| Specificity | Antibody recognizes MUC-1 core protein of cancer antigen 15-3 |
| Description | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components |
| Product code | 100584 |
| Product buffer solution | 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative |
| Shelf life and storage | 24 months from manufacturing at 2–8 °C |
| Analyte description | Cancer Antigen 15-3 is defined by the use of two monoclonal antibodies, one specific for MUC-1 protein core and another antibody specific for a sialylated carbohydrate epitope on the MUC-1 protein. CA15-3 is a widely used serum marker in breast cancer patients for monitoring their response to cancer therapy. |

PARAMETERS TESTED ON EACH LOT

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|------------------------------|--|
| Product appearance | Liquid, may turn slightly opaque during storage |
| Product concentration | 5.0 mg/ml (+/- 10 %) |
| Immunoreactivity | 80–120 % compared to the reference sample in an FIA test |
| IEF Profile | 5.9 - 7.1 |
| Purity | ≥ 95 % |

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

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|-----------------------------------|----------------------------------|
| Subclass | IgG ₁ , λ light chain |
| Association rate constant | Not Determined (N/D) |
| Dissociation rate constant | N/D |
| Affinity constant | N/D |
| Determination method | - |
| Determination antigen | - |

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| Cross-reactivities | N/D | |
| Epitope | Antibody binds to tandem repeat APDTRPAPGSTAPPAGVTS of the MUC-1 core protein. | |
| Pair recommendations | CAPTURE ANTIBODY | DETECTION ANTIBODY |
| | 4404, 4403, 4402, 4401 | Antibody specific for a sialylated carbohydrate epitope on the MUC-1 protein |
| | Antibody specific for a sialylated carbohydrate epitope on the MUC-1 protein | 4404, 4403, 4402, 4401 |
| | Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative. | |
| Product stability | TEMPERATURE, TIME | RESULT |
| | -70 °C, 21 days | OK |
| | -20 °C, 21 days | OK |
| | +4 °C, 21 days | OK |
| | +35 °C, 21 days | OK |
| | +45 °C, 7 days | OK |
| | Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2-8 °C in the product buffer. | |
| Miscellaneous | Antibody recognizes native CA15-3 antigen, Lee Biosolutions 151-53. | |
| References | - | |