



Date: 2014-08-11

PRODUCT SPECIFICATIONS

Anti-h Transferrin 3106 SPTN-5

PRODUCT NAME

PRODUCT SPECIFICITY Human Transferrin

PRODUCT CODE 100474

PRODUCT BUFFER 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.1 % NaN₃ as a preservative

SHELF LIFE AND STORAGE Shelf life unspecified, storage at 2-8 °C

Transferrins are glycoproteins which regulate the amount of free iron in circulation. Each transferrin molecule binds two ${\rm Fe}^{43}$ with high affinity. When no iron is bound the **ANALYTE DESCRIPTION**

molecule is called Apotransferrin. Transferrin concentration elevates in anemia, but also during pregnancy and when using birth control pills. Chronic infections, malignant growth, alcohol induced liver damage, and other conditions with protein

loss may lower transferrin concentration.

PARAMETERS TESTED FROM EACH LOT

Clear liquid, may precipitate during storage which does not alter the product PRODUCT APPEARANCE specifications. Precipitate can be removed by centrifugation or filtering.

PRODUCT CONCENTRATION 5.0 mg/ml (+/- 10 %)

PRODUCT ACTIVITY 80 - 120 % compared to reference in an IFMA-test

IEF-RANGE 7.4 - 8.2

PURITY ≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS IqG_{2a}

2.2 x 10⁶ 1/Ms **ASSOCIATION CONSTANT**

1.1 x 10⁻⁴ 1/s **DISSOCIATION CONSTANT**

 $KA = 2.1 \times 10^{10} \text{ 1/M}$; $KD = 4.8 \times 10^{-11} \text{ M} (=0.048 \text{ nM})$ **AFFINITY CONSTANT**

SPR analysis (BioRad ProteOn XPR36) **DETERMINATION METHOD**

ANTIGEN Transferrin native human (AbD Serotec, cat.no. PHP-238, lot#171210)

N/D **CROSS-REACTIVITIES**





medix_{MAB™}

EPITOPE : N/D

EPITOPE GROUP : -

Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.

PAIR RECOMMENDATIONS

SOLID	LABEL
3105	3106
3106	3105

Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

PRODUCT STABILITY

TEMPERATURE, DAYS

-70 °C, 21 days

-20 °C, 21 days

+4 °C, 21 days

OK

+35 °C, 7 days

OK

+35 °C, 21 days

not recommended

not recommended

Please note that the shelf life given on page one is based on real time stability testing at +2-8 °C in the product buffer.

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. The maximum duration of the test is 21 days, except for the +45 $^{\circ}\text{C}$ only 7 days.

MISCELLANEOUS :

REFERENCES : -

Legal disclaimer

MedixMAB monoclonal antibodies meet their specifications if transported, stored and used according to the instructions for use. See also separate Notes on use and storage of monoclonal antibodies. If not otherwise agreed in writing all products are sold under General Delivery Terms. Other terms may apply if MedixMAB monoclonal antibodies are purchased from an official distributor of Medix Biochemica products. MedixMAB is a registered trademark of Medix Biochemica and may not be used or reproduced without Medix Biochemica's written permission. Further information on products and methods is available from medixMAB website.