

Product Datasheet

Anti-hCG beta 5004 SP-5 101001

Product Name	Anti-hCG beta 5004 SP-5
Catalog Number	101001
Description	Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components.
Tested Applications	FIA, CLIA
Brand	Medix Biochemica
Form/Appearance	Liquid, may turn slightly opaque during storage
Concentration	5.0 mg/ml (+/- 10 %)
Storage	+2-8°C
Isotype	IgG1
Clonality	Monoclonal
Epitope	Beta-2 as described in Berger et al. (2013). The antibody recognizes both intact hCG and free β subunit.
Purity	≥ 95 %
Affinity constant	hCG: $KA = 5.3 \times 10^{10}$ 1/M; $KD = 1.9 \times 10^{-11}$ M (= 0.02 nM) hCG β : $KA = 4.3 \times 10^9$ 1/M; $KD = 2.3 \times 10^{-10}$ M (= 0.23 nM)
Associated Products	Native hCG antigens 189-10 and 189-11, Native β -hCG antigen 325-11
Buffer	0.9 % NaCl, 0.095 % NaN ₃ as a preservative
IEF Profile	6.5-7.6
Cross Reactivity	LH (KD = 17 nM). Does not recognize hCG α , FSH, or TSH
Specificity	Antibody recognizes human chorionic gonadotropin and its free beta subunit
Shelf Life	36 months
References	Berger, P., Paus, E., Hemken, P.M., Sturgeon, C., Stewart, W.W., Skinner, J.P., Harwick, L.C., Saldana, S.C., Ramsay, C.S., Rupprecht, K.R., Olsen, K.H., Bidart, J.M. and Stenman, U.H. (2013) Candidate epitopes for measurement of hCG and related molecules: the second ISOBM TD-7 workshop. Tumor Biol., 34: 4033-4057.