

## Anti-h Calcitonin 4051

### Product overview

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<b>Catalog number</b>	700020
<b>Specificity</b>	Antibody recognizes human calcitonin and procalcitonin
<b>Description</b>	Monoclonal antibody raised against human calcitonin. <i>In vitro</i> cultured mouse hybridomas.
<b>Product buffer solution</b>	0.1 M BBS, pH 8, 0.9 % NaCl
<b>Shelf life and storage</b>	10 years from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	Calcitonin is a peptide hormone secreted by the thyroid gland. Calcitonin concentrations are increased in patients with medullary thyroid carcinoma (MTC) and can be used to diagnose and monitor the disease.

### Parameters tested on each lot

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<b>Product appearance</b>	Liquid
<b>Product concentration</b>	> 1.0 mg/ml
<b>Immunoreactivity</b>	Not Determined (N/D)
<b>IEF Profile</b>	6.0–6.3
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	$3.5 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$9.1 \times 10^{-5}$ 1/s
<b>Affinity constant</b>	$K_A = 3.8 \times 10^9$ 1/M; $K_D = 2.5 \times 10^{-10}$ M (= 0.25 nM)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	PCT, Medix Biochemica (Cat 610080)



#### Legal disclaimer

**Cross-reactivities** N/D

**Epitope** N/D

**Pair recommendations** For calcitonin

		DETECTION			
		4004	4005	4050	4051
CAPTURE	4004	-	-	+	-
	4005	-	-	+	-
	4050	+	+	-	+
	4051	-	-	+	-

For procalcitonin (PCT)

		DETECTION					
		4003	4004	4005	4006	4008	4051
CAPTURE	4003	-	+	+	-	-	+
	4004	+	-	-	+	+	-
	4005	+	-	-	+	+	-
	4006	-	+	+	-	-	+
	4008	-	+	+	-	-	+
	4051	+	-	-	+	+	-

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.

**Platforms tested** ELISA

**Antigens tested** Recombinant PCT antigen, Medix Biochemica 610080

**Product stability** TEMPERATURE, TIME RESULT  
N/D -

**Miscellaneous** -

**References** -



**Legal disclaimer**