Datasheet for ABIN7654791

Recombinant anti-HCG beta antibody

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Overview

Quantity:	50 µL
Target:	HCG beta
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This HCG beta antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	HCG-beta (Pregnancy & Choriocarcinoma Marker) (rHCGb/54)
Immunogen:	Recombinant full-length human hCG beta protein
Clone:	RHCGb-54
Isotype:	IgG1, kappa
Characteristics:	This MAb reacts with a protein of 22 kDa, identified as beta sub-unit of HCG. It does not cross react with the alpha sub-unit. HCG is a glycoprotein, which is secreted in large quantities by normal trophoblasts. It is present only in trace amounts in non-pregnant urine and sera but rises sharply during pregnancy. HCG is composed of two non-identical, non-covalently linked polypeptide chains designated as the i± and beta subunits. The i± subunit is identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH), and luteinizing hormone

Product Details

(LH). hCG MAb detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90 % and 60 % of cases respectively. 20 % of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	HCG beta
Background:	Synonyms: CG-beta, CGB3, CGB5, CGB7, CGB8, Choriogonadotropin Subunit beta, hCGB Gene Symbol: CGB3 Tissue Expression: Placenta
Molecular Weight:	22 kDa
Gene ID:	1082
UniProt:	P01233

Application Details

Application Notes:	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunohistology (formalin): 0.5-1 µg/mL. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined by user
Comment:	Positive Control: JAR or TT Cells. Placenta
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, no BSA, no azide

Handling

Preservative:	Without preservative
Storage:	-20 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Store at -20 °C. Protect fluorescent conjugates from light
Expiry Date:	24 months