HCG-Beta Monoclonal Mouse Antibody (HCGb/54 + HCGb/459)



Product Description

This MAb reacts with a protein of 22 kDa, identified as β sub-unit of HCG. It does not cross react with the α 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 alpha and beta subunits. The alpha subunit is identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH), and luteinizing hormone (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. See the CF® Dye Brochure for more information. 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. **Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 1224, Anti-HCG Beta (HCGb/54 HCGb/459)

Call us: 800-304-5357

Antibody number #1224 Antibody reactivity (target) Primary Host species Mouse Clonality Monoclonal				
(target) Antibody type Primary Host species Mouse Clonality Monoclonal				
Host species Mouse Clonality Monoclonal	HCG Beta			
Clonality Monoclonal	Primary			
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Clone HCGb/54 + HCGb/459				
Isotype IgG's				
Molecular weight 22 kDa	22 kDa			
	CG-beta; CGB3; CGB5; CGB7; CGB8; Choriogonadotropin Subunit beta; hCGB			
Human gene symbol CGB3				
Entrez gene ID 1082				
SwissProt P01233				
Unigene 172944				
Immunogen Recombinant hCG beta protein (HCGb/54 and HCGb/459)				
Antibody target cellular Secreted (extracellular), Vesicular				
Verified antibody IHC (FFPE) (verified)	IHC (FFPE) (verified)			
applications Species reactivity Human				
Antibody application notes Higher concentration may be required direct detection using primary antibod conjugates than for indirect detection				
with secondary antibody, Immunohistology formalin-fixed 0.5-1 ug/ml., Staining of formalin-fixed tissu requires boiling tissue sections in 10 re citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minut. Optimal dilution for a specific applicat should be determined by user	nM es,			
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Email: btinfo@biotium.com

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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