



Anti-CGB monoclonal antibody, clone P1G7F12 (BIO-BCG-005) (CABT-49222MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti hCG beta (free specific) antibody, clone P1G7F12 (BIO-BCG-005) recognizes the beta subunit of human chorionic gonadotropin (hCG). Minimal cross-reactivity (0.5%) has been observed with the intact hCG molecule and negligible reactivity has been shown with the human luteinizing hormone (LH), follicle-stimulating hormone (FSH) and thyroid-stimulating hormone (TSH). Human chorionic gonadotropin exists in 5 different variants (hCG, sulfated hCG, hyperglycosylated hCG, free beta hCG and hyperglycosylated free beta) that share the same amino acid sequence but have different functions (Cole 2012). hCG is a glycoprotein of 237 amino acids. Regular hCG has a molecular weight of ~36kDa where oligosaccharides account for 25-30% of the MW (Cole 2010). hCG is composed of a 92-amino acid alpha subunit, common to the LH, FSH and TSH hormones, and of a unique beta subunit, which is recognized by Mouse anti hCG beta antibody, clone P1G7F12. Production of progesterone is not the only role of hCG: it also has numerous other functions, during pregnancy and as a marker for certain cancers (Cole 2012), (Cole 2010) and (Cole 2009).

Specificity	hCG
Immunogen	Human Chorionic Gonadotropin beta subunit from human pregnancy urine
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	P1G7F12 (BIO-BCG-005)
Conjugate	Unconjugated
Applications	RIA

Format	Purified IgG - liquid
Size	1 mg
Preservative	See individual product datasheet
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	CGB chorionic gonadotropin, beta polypeptide [Homo sapiens (human)]
Official Symbol	CGB
Synonyms	CGB; chorionic gonadotropin, beta polypeptide; CGB3; CGB5; CGB7; CGB8; hCGB; choriogonadotropin subunit beta; CG-beta; chorionic gonadotropin beta chain; chorionic gonadotrophin chain beta; chorionic gonadotropin beta subunit; chorionic gonadotropin beta
Entrez Gene ID	1082
Protein Refseq	NP_000728
UniProt ID	P01233
Chromosome Location	19q13.32
Pathway	Glycoprotein hormones; Metabolism of proteins; Peptide hormone biosynthesis; Peptide hormone metabolism;
Function	hormone activity;