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Human CG beta Recombinant Rabbit mAb

Catalog # AP100072

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P0DN86
Other Accession	P0DN86
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	17739
Immunogen	Recombinant human Choriogonadotropin subunit beta 3 protein
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glycoprotein hormones subunit alpha family.
SUBUNIT	Heterodimer of a common alpha chain and a unique beta chain which confers biological specificity to thyrotropin, lutropin, follitropin and gonadotropin.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The beta subunit of chorionic gonadotropin (CGB) is encoded by six highly homologous and structurally similar genes that are arranged in tandem and inverted pairs on chromosome 19q13.3, and contiguous with the luteinizing hormone beta (LHB) subunit gene. The CGB genes are primarily distinguished by differences in the 5' untranscribed region. This gene was originally thought to be one of the two pseudogenes (CGB1 and CGB2) of CGB subunit, however, detection of CGB1 and CGB2 transcripts in vivo, and their presence on the polysomes, suggested that these transcripts are translated. To date, a protein product corresponding to CGB1 has not been isolated. The deduced sequence of the hypothetical protein of 132 aa does not share any similarity with that of functional CGB subunits (PMID:8954017). However, a 155 aa protein, translated from a different frame, is about the same size, and shares 98% identity with other CGB subunits. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	1082;93659;94115
Other Names	CGB; CGB5; CGB7; CGB8; LHB; hCGB; CGB3_HUMAN; CGB3; Choriogonadotropin subunit beta (CG-beta); Chorionic gonadotropin chain beta; chorionic gonadotropin subunit beta 3; chorionic gonadotropin, beta polypeptide; chorionic gonadotropin beta subunit 3
Dilution	IHC-P=1:200-800,IHC-F=1:200-800,IF=1:200-800
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CGB3
Synonyms	CGB
Function	Beta subunit of the human chorionic gonadotropin (hCG). hCG is a complex glycoprotein composed of two glycosylated subunits alpha and beta which are non-covalently associated. The alpha subunit is identical to those in the pituitary gonadotropin hormones (LH, FSH and TSH). The beta subunits are distinct in each of the hormones and confer receptor and biological specificity. Has an essential role in pregnancy and maternal adaptation. Stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy.
Cellular Location	Secreted.
Tissue Location	High expression in the placenta throughout pregnancy.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.