10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CGA Mouse mAb

Catalog # AP99860

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P01215
Other Accession	P01215
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	13075
Physical State	Liquid
Immunogen	Natural human hCG protein
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M PBS (pH7.4) with 0.02% Proclin300.
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 four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers consisting of alpha and beta subunits that are associated noncovalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. The protein encoded by this gene is the alpha subunit and belongs to the glycoprotein hormones alpha chain family. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Additional Information

Gene ID	1081
Other Names	CG-ALPHA; FSHA; GPA1; GPHA1; GPHa; HCG; LHA; TSHA; GLHA_HUMAN; CGA; Anterior pituitary glycoprotein hormones common subunit alpha; Choriogonadotropin alpha chain; Chorionic gonadotrophin subunit alpha (CG-alpha); Follicle-stimulating hormone alpha chain (FSH-alpha); Follitropin alpha chain; Luteinizing hormone alpha chain (LSH-alpha); Lutropin alpha chain; Thyroid-stimulating hormone alpha chain (TSH-alpha); Thyrotropin alpha chain; GLHA_MOUSE; GPHalpha; aGSU; alpha-GSU; alphaGSU; alphaSU; glycoprotein hormones, alpha polypeptide; follicle-stimulating hormone alpha subunit; chorionic gonadotropin, alpha polypeptide; luteinizing hormone alpha chain; thyroid-stimulating hormone alpha chain; glycoprotein hormones alpha chain

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	CGA
Function	Shared alpha chain of the active heterodimeric glycoprotein hormones thyrotropin/thyroid stimulating hormone/TSH, lutropin/luteinizing hormone/LH, follitropin/follicle stimulating hormone/FSH and choriogonadotropin/CG. These hormones bind specific receptors on target cells that in turn activate downstream signaling pathways.
Cellular Location	Secreted

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