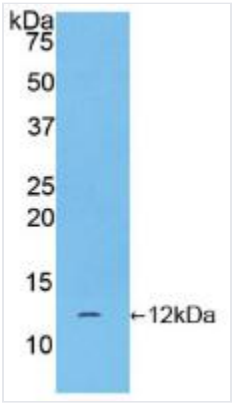
Chorionic Gonadotropin Alpha Polypeptide (CGa) Antibody – Rabbit Polyclonal

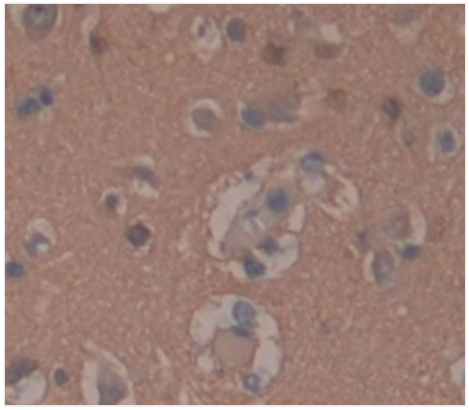
PRODUCT OVERVIEW

Product Name	Chorionic Gonadotropin Alpha Polypeptide (CGa), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Chorionic Gonadotropin Alpha Polypeptide (CGa)
Product Gene Name	anti-CGa antibody
Immunogen Sequence	Antigen: The target protein is fused with N-terminal His-Tag and its sequence is listed below. MGHHHHHHSG SEF-APDVQD CPECTLQENP FFSQPGAPIL QCMGCCFSRA YPTPLRSKKT
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3,50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	0.7mg/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against CGa. It has been selected for its ability to recognize CGa in immunohistochemical staining andwestern blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Unconjugated Antibody: CGa (MBS2006528) Biotin Conjugated Antibody: CGa (MBS2005911)
Matching Pairs	Unconjugated Antibody: CGa (MBS2006528) Immunogen: CGa (MBS2011439)
Matching Pairs	Unconjugated Antibody: Chorionic Gonadotropin Alpha Polypeptide (CGa) (MBS2006528) APC-CY7 Conjugated Secondary Antibody: Immunoglobulin G (MBS2090675)
Matching Pairs	Unconjugated Antibody: Chorionic Gonadotropin Alpha Polypeptide (CGa) (MBS2006528) Unconjugated Secondary Antibody: Immunoglobulin G (MBS2090678)
Matching Pairs	Unconjugated Antibody: CGa (MBS2006528) APC-CY7 Conjugated Antibody: CGa (MBS2108848)
Matching Pairs	Unconjugated Antibody: CGa (MBS2006528) PE Conjugated Antibody: CGa (MBS2108850)
Matching Pairs	Unconjugated Antibody: CGa (MBS2006528) APC Conjugated Antibody: CGa (MBS2108852)
Matching Pairs	Unconjugated Antibody: CGa (MBS2006528) Cy3 Conjugated Antibody: CGa (MBS2108854)
Matching Pairs	Unconjugated Antibody: CGa (MBS2006528) FITC Conjugated Antibody: CGa (MBS2108857)
Matching Pairs	Unconjugated Antibody: CGa (MBS2006528) HRP Conjugated Antibody: CGa (MBS2108859)
Molecular Weight	13,075 Da
3D Structure	ModBase 3D Structure for P01215

Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	Recombinant CGa (Ala25~Ser116) expressed in E.coli.
Cross Reactivity	Human
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CGa antibody	Immunocytochemistry (ICC), Immunohistochemistry (IHC) - Formalin/Paraffin, ELISA (EIA), Western Blot (WB)
Application Notes for anti-CGa antibody	Western blotting: 1:100-400 Immunocytochemistry in formalin fixed cells: 1:100-500 Immunohistochemistry in formalin fixed frozen section: 1:100-500 Immunohistochemistry in paraffin section: 1:50-200 Enzyme-linked Immunosorbent Assay: 1:100-200
Related Product Information for anti-CGa antibody	MBS2006528 is an antibody targeting CGa. Also known as Polyclonal Antibody to Chorionic Gonadotropin Alpha Polypeptide (CGa). Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CGa antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CGa antibody
Western Blot: Sample: Recombinant CGa, Human.



Immunohistochemistry (IHC) of anti-CGa antibody
DABstainingonIHC-P.Samples:HumanTissue)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CGa. It may not necessarily be applicable to this product.

NCBI GI #	4502787
NCBI GeneID	1081
NCBI Accession #	NP_000726.1
UniProt Primary Accession #	P01215
UniProt Related Accession #	P01215
GenBank Nucleotide #	NM_000735.3
NCBI Official Full Name	glycoprotein hormones alpha chain isoform 2
NCBI Official Synonym Full Names	glycoprotein hormones, alpha polypeptide
NCBI Official Symbol	CGA
NCBI Official Synonym Symbols	HCG; LHA; FSHA; GPHa; TSHA; GPHA1; CG-ALPHA
UniProt Protein Name	Glycoprotein hormones alpha chain

UniProt Synonym Protein Names	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
Protein Family	Glycoprotein hormones
UniProt Gene Name	CGA
UniProt Synonym Gene Names	CG-alpha; FSH-alpha; LSH-alpha; TSH-alpha
NCBI Protein Information	glycoprotein hormones alpha chain
NCBI Summary for CGa	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]
UniProt Comments for CGa	CGA: 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] Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 6q14.3 Cellular Component: extracellular region; Golgi lumen Molecular Function: hormone activity; protein binding Biological Process: cell-cell signaling; G-protein coupled receptor signaling pathway; peptide hormone processing; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of transcription from RNA polymerase II promoter; regulation of receptor activity; regulation of transcription from RNA polymerase II promoter; signal transduction
Research Articles on CGa	**1.** proteomic study reveals unique protein changes in both cellular (98% unique identifications) and secreted (96% unique identifications) proteins in the transition to the progesterone-dominated secretory (receptive) phase and subsequently to pregnancy, mediated by embryo-derived human chorionic gonadotropin (hCG)
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