Luteinizing Hormone (LH) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Luteinizing Hormone (LH), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Luteinizing Hormone (LH)
Product Gene Name	anti-LH antibody
Product Synonym Names	ICSH; Lutropin; Interstitial Cell Stimulating Hormone
Immunogen Sequence	Lys124~Gly 137
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	500ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against LH. It has been selected for its ability to recognize LH in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: LH (MBS2111877) Immunogen: LH (MBS2086142)
Matching Pairs	Unconjugated Antibody: LH (MBS2111877) Biotin Conjugated Antibody: LH (MBS2113098)
Matching Pairs	Unconjugated Antibody: LH (MBS2111877) FITC Conjugated Antibody: LH (MBS2114201)
Matching Pairs	Unconjugated Antibody: LH (MBS2111877) HRP Conjugated Antibody: LH (MBS2115523)
Matching Pairs	Unconjugated Antibody: LH (MBS2111877) APC-CY7 Conjugated Antibody: LH (MBS2116867)
Matching Pairs	Unconjugated Antibody: LH (MBS2111877) PE Conjugated Antibody: LH (MBS2118211)
Matching Pairs	Unconjugated Antibody: LH (MBS2111877) APC Conjugated Antibody: LH (MBS2119555)
Matching Pairs	Unconjugated Antibody: LH (MBS2111877) Cy3 Conjugated Antibody: LH (MBS2121043)
Molecular Weight	Predicted: 34 kDa Observed: 36 kDa
OMIM	113730

3D Structure	ModBase 3D Structure for P25874
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 Sequence	Lys124~Gly137
Cross Reactivity	Human
Conjugation	None
Product Categories/Family for anti-LH antibody	Endocrinology; Reproductive Science; Hormone Metabolism
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-LH antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-LH antibody	WB: 0.5-2ug/mL; 1:200-900 IHC: 5-20ug/mL; 1:20-90 ICC: 5-20ug/mL; 1:20-90
Related Product Information for anti-LH antibody	MBS2111877 is an antibody targeting LH. Also known as Polyclonal Antibody to Luteinizing Hormone (LH). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-LH 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.

ADDITIONAL DETAILS

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

NCBI GI #	11225256
NCBI GeneID	7350
NCBI Accession #	NP_068605
UniProt Primary Accession #	P25874
UniProt Secondary Accession #	Q13218; Q4KMZ3; Q68G66
UniProt Related Accession #	P25874
GenBank Nucleotide #	NM_021833.4
NCBI Official Full Name	mitochondrial brown fat uncoupling protein 1
NCBI Official Synonym Full Names	uncoupling protein 1 (mitochondrial, proton carrier)
NCBI Official Symbol	UCP1
NCBI Official Synonym Symbols	UCP; SLC25A7
UniProt Protein Name	Mitochondrial brown fat uncoupling protein 1
UniProt Synonym Protein Names	Solute carrier family 25 member 7; Thermogenin
UniProt Gene Name	UCP1
UniProt Synonym Gene Names	SLC25A7; UCP; UCP 1
UniProt Entry Name	UCP1_HUMAN
NCBI Protein Information	mitochondrial brown fat uncoupling protein 1; thermogenin; solute carrier family 25 member 7

NCBI Summary for LH	Mitochondrial uncoupling proteins (UCP) are members of the family of mitochondrial anion carrier proteins (MACP). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. Tissue specificity occurs for the different UCPs and the exact methods of how UCPs transfer H+/OH- are not known. UCPs contain the three homologous protein domains of MACPs. This gene is expressed only in brown adipose tissue, a specialized tissue which functions to produce heat. [provided by RefSeq, Jul 2008]
UniProt Comments for LH	UCP1: UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation from ATP synthesis. As a result, energy is dissipated in the form of heat. Belongs to the mitochondrial carrier family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Mitochondrial Chromosomal Location of Human Ortholog: 4q28-q31 Cellular Component: mitochondrion; mitochondrial inner membrane; integral to membrane Molecular Function: oxidative phosphorylation uncoupler activity Biological Process: regulation of transcription from RNA polymerase II promoter; cellular metabolic process; proton transport; brown fat cell differentiation; mitochondrial transport Disease: Obesity
Research Articles on LH	**1.** In obesity, in vitro differentiated beige/brite adipocytes derived from preadipocytes of human subcutaneous white adipose tissues express less UCP1.
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