



# Anti-LHB monoclonal antibody, clone C21 (DMAB3889MH)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Monoclonal Antibody to Human Luteinizing Hormone beta (LH-beta)
<b>Antigen Description</b>	Luteinizing Hormone is a member of the glycoprotein hormone family. Glycoprotein hormones are heterodimers consisting of a common alpha subunit and an unique beta subunit which confers biological specificity. LH is expressed in the pituitary gland and promotes spermatogenesis and ovulation by stimulating the testes and ovaries to synthesize steroids. Mutations in the Luteinizing Hormone (LHB) gene are associated with hypogonadism which is characterized by infertility and pseudohermaphroditism.
<b>Specificity</b>	Specific for Human Luteinizing Hormone beta subunit. Cross-reactivity: LH 100% LH-alpha <1% beta-hCG <1% ihCG <1% FSH <1% TSH <1%
<b>Immunogen</b>	beta-LH
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	C21
<b>Affinity Constant</b>	2 x 10 <sup>10</sup> l/mol
<b>Purification</b>	DEAE column chromatography Titration curve of C66700M in indirect ELISA Antigen: Campylobacter jejuni ATCC 29428, coated at approx. 106 bacteria per well. Antibody: Dilution series of C66700M, incubated 1 hour at room temperature followed by
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	For enzyme conjugation. Pairs with LH monoclonal antibody (Catalog #E92402M) in the LH

sandwich immunoassay. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Recommended pairs for sandwich immunoassay:

- **Capture**  
[DMAB3889MH](#)  
[DMAB3890MH](#)
- **Detection**  
[DMAB3890MH](#)  
[DMAB3889MH](#)

<b>Format</b>	Purified, Liquid
<b>Concentration</b>	4.7mg/ml (OD280nm)
<b>Size</b>	1 mg
<b>Buffer</b>	0.015M KPO4 buffer, pH 7.4, containing 0.85% Sodium chloride
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	Store at 2–8°C. DO NOT FREEZE!

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">LHB luteinizing hormone beta polypeptide [ Homosapiens ]</a>
<b>Official Symbol</b>	LHB
<b>Synonyms</b>	LHB; luteinizing hormone beta polypeptide; CGB4; hLHB; LSH-B; LHB; interstitial cell stimulating hormone, beta chain; luteinizing hormone beta subunit; lutropin, beta chain; Lutropin subunit beta; Luteinizing hormone subunit beta; LSH-beta.
<b>Entrez Gene ID</b>	<a href="#">3972</a>
<b>Protein Refseq</b>	<a href="#">NP_000885</a>
<b>UniProt ID</b>	<a href="#">P01229</a>
<b>Chromosome Location</b>	19q13.32
<b>Pathway</b>	<a href="#">Class A/1; G alpha (s) signalling events; GPCR downstream signaling; GPCR ligand binding; Glycoprotein hormones; GnRH signaling pathway; GnRH signaling pathway; Metabolism</a>
<b>Function</b>	Hormone activity, receptor binding.