abcam

Product datasheet

Anti-Progesterone antibody [EPPTX-R1] ab215527

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Progesterone antibody [EPPTX-R1]
Description	Rabbit monoclonal [EPPTX-R1] to Progesterone
Host species	Rabbit
Tested applications	**Suitable for:** Competitive ELISA
Species reactivity	**Reacts with:** Species independent
Immunogen	Chemical/ Small Molecule corresponding to Human Progesterone. The immunogen is 11 alpha-Hydroxyprogesterone hemisuccinyl-CH3 BSA.
Positive control	Competitive ELISA: Progesterone
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPPTX-R1
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab215527 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

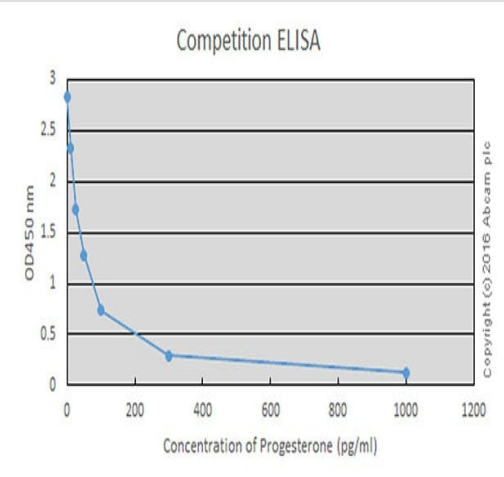
Application	Abreviews	Notes
Competitive ELISA		Use at an assay dependent concentration. Use 3-5 ng/ml.

Target

Relevance Progesterone plays a central role in the reproductive events associated with the establishment and maintenance of pregnancy. Progesterone receptor, a member of the steroid receptor superfamily, mediates the physiologic effects of progesterone. The PGR gene uses separate promoters and translational start sites to produce 2 isoforms, PRA and PRB, which are identical except for an additional 165 amino acids present only in the N terminus of PRB. Although PRA and PRB share several structural domains, they are distinct transcription factors that mediate their own response genes and physiologic effects with little overlap. It is composed of three domains: a modulating N terminal domain, a DNA binding domain and a C terminal steroid binding domain. Progesterone levels 1. men 30-60 pg/0.1ml 2. women pre ovulatory phase: 20-160 pg/0.1ml; ovulatory phase: 1,000-1,700 pg/0.1ml; post ovulatory phase: 1,000-1,700 pg/0.1ml; Pregnant: 16-18 weeks: 300-800 pg/0.1ml; 28-30 weeks: 6,500-14,700 pg/0.1ml; 38-40 weeks: 12,000-19,000 pg/0.1ml.

Cellular localization Secreted

Images



Competitive ELISA - Anti-Progesterone antibody [EPPTX-R1] (ab215527)

Goat anti-rabbit IgG was coated onto a 96-well plate. Serial dilution of Progesterone (0, 10, 25, 50, 100, 300, 1000 pg/ml) was added (50 µl). This was followed by adding 25 µl HRP-conjugated Progesterone and 3-5 ng/ml of ab215527 (50 µl) into each well. Plates were incubated for 2 hours at room temperature by shaking. After washing, 125 µl Tetramethylbenzidine (TMB) substrate was added and incubated for 30 minutes at room temperature for color development. Then 125 ul of stopping solution (acid solution) was dispensed and OD was read at 450 nm on a microplate reader within 10 minutes.

This data was kindly provided by Pantex Division of Bio-Analysis, Inc.

Compound	% Cross-reactivity
C-21 Steroids	
Progesterone	100.000
17α-OH-Progesterone	1.2696
Pregnenolone	0.6524
17OH-Pregnenolone	0.0036
Desoxycorticosterone	1.5584
11-Desoxycorticosterone	0.1490
Corticosterone	2.1360
Aldosterone	0.9035
Cortisol	0.2375
20α-Dihydroprogesterone	0.2170
20β-Dihydroprogesterone	0.1226
Pregnenolone-3-SO4	0.7519
C-19 Steroids	
Androstenedione	0.1144
Testosterone	0.1033
5DHT	0.0486
DHEA-SO4	0.0022
Androstanedione	0.0947
C-18 Steroids	
Estradiol-17β	0.0032
Estradiol-17α	0.0029
Estriol	0.0009
Estrone	0.0087

Competitive ELISA - Anti-Progesterone antibody [EPPTX-R1] (ab215527)

ab215527 is specific to Progesterone and the percent cross reactivity with other compounds is demonstrated in the table.

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Anti-Progesterone antibody [EPPTX-R1] (ab215527)

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