abcam

Product datasheet

Anti-Progesterone antibody [HPRO-2] ab1977

Overview

Product name	Anti-Progesterone antibody [HPRO-2]
Description	Mouse monoclonal [HPRO-2] to Progesterone
Host species	Mouse
Specificity	This antibody reacts with 17 alpha-hydroxyprogesterone-BSA conjugate and free 17 alpha-hydroxyprogesterone. There is no cross-reactivity with BSA. See also the cross-reactivities table.
Tested applications	**Suitable for:** competitive binding assays
Species reactivity	Can be used for detection of progesterone.
Immunogen	17alpha-hydroxyprogesterone conjugated to BSA.
General notes	Concentration varies from lot to lot and can be provided on request.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: PBS, pH 7.4
Purity	Protein G purified
Purification notes	Purity is tested by electrophoresis.
Clonality	Monoclonal
Clone number	HPRO-2
Myeloma	Sp2/0
Isotype	IgG2b

Applications

Our Abpromise guarantee covers the use of **ab1977** 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 binding assays		

Application notes

IA: This antibody can be used in competitive assay of 17 alpha-hydroxyprogesterone.

Not tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

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.

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