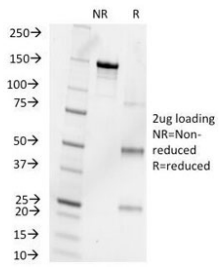
Progesterone Antibody 6-5E-10B / Progesterone Hormone Antibody [clone 6-5E-10B] (V3090)

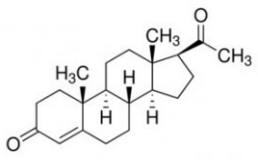
Catalog No.	Formulation	Size
V3090-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3090-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3090SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	All species
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	6-5E-10B
Purity	Protein G affinity chromatography
UniProt	Not Applicable
Localization	Secreted and cytoplasmic
Applications	ELISA (order BSA/sodium azide-free format for coating)
Limitations	This Progesterone Antibody 6-5E-10B / Progesterone Hormone Antibody is available for research use only.



Purified Progesterone Antibody 6-5E-10B SDS-PAGE. SDS-PAGE analysis of purified, BSA-free Progesterone Antibody clone 6-5E-10B demonstrates the integrity and purity of the mouse monoclonal antibody preparation. Under reducing conditions, the predominant protein bands correspond to the expected immunoglobulin heavy and light chains at approximately 50 kDa and 25 kDa, respectively.



Molecular Structure of Progesterone. Chemical structure of progesterone (P4), a C21 steroid hormone also known as pregn-4-ene-3,20-dione. Progesterone plays central roles in reproductive biology, endocrine signaling, ovarian function, and maintenance of pregnancy.

Description

Progesterone Antibody 6-5E-10B / Progesterone Hormone Antibody recognizes progesterone, a C21 steroid hormone involved in reproductive physiology, endocrine regulation, and pregnancy. Progesterone, frequently abbreviated P4, is synthesized from cholesterol through the steroidogenic pathway and is also known chemically as pregn-4-ene-3,20-dione. Major sites of progesterone production include the corpus luteum, placenta, and adrenal glands.

Progesterone mediates many of its effects through progesterone receptors, ligand-activated transcription factors belonging to the nuclear receptor superfamily. Progesterone receptor signaling regulates gene expression associated with endometrial function, embryo implantation, pregnancy maintenance, and mammary gland biology. Interactions with estrogen and other steroid hormone pathways further contribute to the coordinated regulation of reproductive and endocrine physiology.

As a steroid molecule, progesterone shares substantial structural similarity with other hormones and steroid metabolites. This relationship makes antibody recognition and cross-reactivity important considerations in progesterone research. A Progesterone Hormone Antibody can support studies examining P4 concentrations, steroid metabolism, ovarian biology, reproductive cycles, and endocrine regulation.

Progesterone measurement is also relevant to research into steroidogenesis and hormone-dependent biological processes. Immunochemical approaches provide a useful means of studying small molecules such as progesterone, whose size and chemical structure differ considerably from conventional protein antigens.

NSJ Bioreagents offers clone 6-5E-10B as a mouse monoclonal Progesterone Antibody for research into steroid hormone biology and reproductive endocrinology. This Progesterone Hormone Antibody provides a research reagent for investigating progesterone detection and endocrine regulation.

For a recombinant monoclonal option, see our Progesterone Antibody page.

Application Notes

Optimal dilution of the Progesterone Antibody 6-5E-10B / Progesterone Hormone Antibody should be determined by the researcher.

Immunogen

Progesterone- 11a-hemisuccinate conjugated to bovine serum albumin (Pr11a-HMS-BSA) was used as the immunogen for the Progesterone antibody.

Storage

Store the Progesterone antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Progesterone antibody, P4 antibody, Progesterone hormone antibody, Pregn-4-ene-3,20-dione antibody, 4-Pregnene-3,20-dione antibody

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