Anti-Progesterone [DB3] Standard Size Ab00485-1.1

Isotype and Format: Mouse IgG1, Kappa
Clone Number: DB3
Alternative Name(s) of Target: P4; D
UniProt Accession Number of Target Protein:
Published Application(s): Block, ELISA, IHC
Published Species Reactivity: Species independent
Immunogen: 11-a-hydroxyprogesterone-11-hemisuccinyl-bovine serum albumin (BSA) conjugate.
Specificity: The antibody binds progesterone with an affinity (Kd) of 1 nM.
Application Notes: The antibody binds specifically to progesterone, a steroid female sex hormone produced by the corpus luteum in the ovaries, and then by the placenta during pregnancy. The hormone is necessary for maintenance of pregnancy as it prevents the breakdown of the endometrium. Monoclonal antibodies against progesterone can be useful to increase the understanding of the role of the hormone in the female reproductive system, and may be potentially used as an immunological prevention of pregnancy. Studies have shown that the injection of DB3 in female mice had anti-fertility effects. It is thought that DB3 may inhibit pregnancy by binding to a progesterone transport protein, thereby preventing the uptake of progesterone by epithelial cells of the uterine tissue.
Antibody First Published in: Stura EA, Arevalo JH, Feinstein A, Heap RB, Taussig MJ, Wilson IA. Analysis of an anti-progesterone antibody: variable crystal morphology of the Fab' and steroid-Fab' complexes. Immunology. 1987 Dec;62(4):511-21. PMID:3123368
Note on publication: Describes the production of an anti-progesterone monoclonal antibody DB3, which can be used to terminate pregnancy shortly after fertilization, and for hormone immunoassay.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

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Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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