Anti-17ß estradiol [10G6D6] Standard Size Ab00478-1.1

Isotype and Format: Mouse IgG1, Lambda
Clone Number: 10G6D6
Alternative Name(s) of Target: 17-beta-estradiol; E2; ethynyl estradiol; oestradiol
UniProt Accession Number of Target Protein:
Published Application(s): IP, RIA, WB, ELISA
Published Species Reactivity: Species independent
Immunogen: estradiol-6-ethyl methoxy carbonyl (EMC)–bovine serum albumin (BSA).
Specificity: This antibody binds specifically to 17β estradiol, a mammalian estrogenic steroid hormone that is produced in the ovaries, placenta, and testis.
Application Notes: This antibody binds 17ß estradiol with a sensitivity of 33 ± 9 pg/ml. In women, 17β estradiol plays an important role in the development of secondary sexual characteristics and the maturation of long bones. It is also responsible for the activation of certain oncogenes and can be involved in the development of breast cancer and cancer of the uterine lining. Anti-estradiol antibodies can be useful in the detection of hormone concentrations in serum samples. This can be used therapeutically to monitor follicular maturation in cases of female infertility and estradiol-secreting tumors.
Antibody First Published in: Bettsworth F, Monnet C, Watelet B, Battail-Poirot N, Gilquin B, Jolivet M, Menez A, Arnaud M, Ducancel F. Functional characterization of two anti-estradiol antibodies as deduced from modelling and site-directed mutagenesis experiments. J Mol Recognit. 2001 Mar-Apr;14(2):99-109. PMID:11301480
Note on publication: Describes the role of monoclonal antibodies in measuring concentrations of steroid hormones in human serum samples, and the characterization of two anti-estradiol monoclonal antibodies for this use.

Product Form

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

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

procedures for humans or animals.