

Anti-17 β estradiol [10G6D6] Standard Size Ab00478-10.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human 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 17 β estradiol, a mammalian estrogenic steroid hormone that is produced in the ovaries, placenta, and testis.

Application Notes: This antibody binds 17 β estradiol with a sensitivity of 33 ± 9 pg/ml. In women, 17 β 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 μ g Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°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.