

## Anti-17 $\beta$ estradiol [57-2] Standard Size Ab00486-10.7

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

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 F(ab)2, AbFab2™ His-Tagged, Kappa

**Clone Number:** 57-2

**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:** n/a

**Immunogen:** Human 17 $\beta$  estradiol.

**Specificity:** The antibody binds to 17 $\beta$  estradiol with an affinity (Kd) of 2 nM.

**Application Notes:** The antibody binds specifically to 17 $\beta$ -estradiol, the most potent member of the family of estrogens, which plays a role in both reproductive and non-reproductive physiological processes. 17 $\beta$ -estradiol is an important hormone during the pre-ovulatory phase of the menstrual cycle and in the prevention of osteoporosis in women. Monoclonal antibody directed against the hormone are used routinely in immunoassays to measure serum levels of 17 $\beta$ -estradiol.

**Antibody First Published in:** Pajunen M, Saviranta P, Jauria P, Karp M, Pettersson K, Mäntsälä P, Lovgren T. Cloning, sequencing, expression and characterization of three anti-estradiol-17 $\beta$  Fab fragments. Biochim Biophys Acta. 1997 Mar 20;1351(1-2):192-202. [PMID:9116033](#)

**Note on publication:** Describes the sequencing of three high affinity anti-estradiol-17 $\beta$  monoclonal antibodies and the determination of their crystal structures.

## Product Form

**Size:** 200  $\mu$ g Purified antibody.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**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.