

## Anti-Estradiol [9D3] Standard Size Ab02761-23.0

This chimeric rabbit 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:** Rabbit IgG, Kappa

**Clone Number:** 9D3

**Alternative Name(s) of Target:** 7-(O-carboxymethyl)oximinoestradiol; 17 $\beta$ -estradiol; oestradiol

**UniProt Accession Number of Target Protein:**

**Published Application(s):** functional assay, RIA

**Published Species Reactivity:** Species independent

**Immunogen:** This antibody was raised by immunizing male Balb/c mice with 7-(O-carboxymethyl)oximinoestradiol-BSA.

**Specificity:** This antibody is specific for the 17 $\beta$ -hydroxy group of estradiol. It is reported to show stronger recognition of the D-ring than of the A-ring extremity of the steroid, but a similar lack of specificity for both 6- and 7-positions of the B-ring. Estradiol is an estrogen steroid hormone and the major female sex hormone. It is involved in the regulation of the estrous and menstrual female reproductive cycles.

**Application Notes:** A radioimmunoassay was performed with the mouse version of this antibody on estradiol tracers (Rolland de Ravel et al, 2001; pmid:11732911). The binding specificity of the mouse version of the antibody was determined using photoaffinity labelling on different forms of estradiol (Rolland de Ravel et al, 2001; pmid:11732911).

**Antibody First Published in:** Rolland de Ravel et al. Specific Photoaffinity-Labeling of Tyr-50 on the Heavy Chain and of Tyr-32 on the Light Chain in the Steroid Combining Site of a Mouse Monoclonal Anti-Estradiol Antibody Using C3-, C6-, and C7-Linked 5-Azido-2-nitrobenzoylamidoestradiol Photoreagents. Biochemistry. 2001 Dec 11;40(49):14907-20. [PMID:11732911](#)

**Note on publication:** A mouse monoclonal anti-7-(O-carboxymethyl) oximinoestradiol antibody 9D3, raised against the same immunogen as that employed for generating the reported anti-estradiol antibody 15H11 [Rousselot, P., et al. (1997) Biochemistry 36, 7860-7868], was found to exhibit an opposite specificity profile with a much stronger recognition of the D-ring than of the A-ring extremity of the steroid, but a similar lack of specificity for both 6- and 7-positions of the B-ring.

## 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°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.