

**Anti-Estradiol-17 $\beta$   
 Mouse monoclonal antibody**

Subclass: IgG<sub>1</sub>/k

PRODUCT NO.

**HYB 057-02**

Clone: 7G4

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200  $\mu$ L and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

ANTIGEN

Biologically active estrogen, estradiol-17 $\beta$ , is an important sex hormone, but also makes an important contribution to the high concentrations of estrogens which are present in malignant breast tissues.

IMMUNOGEN

Estradiol-17 $\beta$ -6-CMO coupled to BSA adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 057-02 reacts with estradiol-17 $\beta$ . No cross-reactivity is seen with estrone, estradiol, estrone sulphate, 16-ketoestradiol, 2-hydroxyestradiol, progesterone, androstenedione, testosterone, or cortisol when measuring on tritium-labeled steroids in radioimmunoassay.

EPI TOPE SPECIFICITY

Epitope specific for the hormone, no reactivity to the CMO linker

REACTIVITY

HYB 057-02 reacts specifically with estradiol-17 $\beta$  with a measured  $K_a$  of  $3 \times 10^9$  in a radioimmunoassay. HYB 057-02 can be cleaved with papain and reduced to generate Fab fragments with a  $K_a$  of  $13.4 \times 10^9$  (1).

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

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