

**Anti Estradiol-17-beta  
mouse monoclonal antibody**Subclass: IgG<sub>1</sub>/k

PRODUCT NO.

**HYB 057-02**

PRESENTATION

Preparation: Protein-A purified  
 Content: Available in 200 µL and 1 mL, 1 mg/mL  
 Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide  
 Storage: In the dark at 4-8°C

ANTIGEN

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

IMMUNOGEN

Estradiol-17b-6-CMO coupled to BSA

SPECIFICITY

HYB 057-02 reacts with estradiol-17beta. No crossreactivity is seen with estrone, 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-17beta 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 i.p. with immunogen adsorbed onto Al(OH)<sub>3</sub>

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:8000	
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on use as detection antibody for antigen coated at 0.1-1 µg/ml. Users should determine the optimal dilutions for their own purposes.

REFERENCES

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**CONDITIONS**

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.