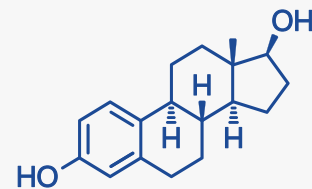


# Anti-Estradiol rabbit recombinant monoclonal antibody



Estradiol (E2) is the most potent endogenous estrogen and the primary form during reproductive years. It is produced mainly in the ovaries through aromatization of testosterone. Through ER $\alpha$ , ER $\beta$ , and GPER1 receptors, estradiol regulates essential reproductive, skeletal, metabolic, cardiovascular, and neurological functions. It is crucial for menstrual-cycle control, bone integrity, and neuroendocrine signaling<sup>1</sup>. Estradiol testing helps evaluate ovarian function, identify menstrual abnormalities, guide assisted reproduction, and monitor estrogen-secreting tumors. In postmenopausal individuals, it is also used to assess the effectiveness of hormone therapy. We offer ultra-high-affinity rabbit recombinant monoclonal antibodies against estradiol, available either as ready-to-use recombinant proteins (including BSA conjugate) or through licensing.



## Antibody specification

- Target**  
Estradiol
- Immunogen**  
VLP-Estradiol
- Target type**  
Small molecule
- Clonality**  
Monoclonal
- Isotype**  
IgG-Kappa 1
- Class**  
Recombinant
- Host**  
Rabbit
- Conjugation**  
Upon request
- Expression system**  
Mammalian
- Purification**  
Protein A
- Concentration**  
1 mg/ml
- Storage buffer**  
PBS
- Storage**  
Short term: +4°C  
Long term: -80°C
- Field**  
Hormone
- Applications**
  - ELISA, CLIA, RIA, etc.
  - Lateral flow assay

## Conjugate specification

- Conjugate**
  - BSA-Estradiol
  - Reactive hapten (upon request)
- Concentration**  
1 mg/ml
- Storage buffer**  
PBS
- Storage**  
-20°C or below

## Clone information

Clone #	Affinity $\pm$ SD (nM)	Cross-reactivity $\pm$ SD (%)		
	Estradiol	Estrone	Estrilol	17 $\beta$ -Estradiol sulfate
DB-201039	0.069 $\pm$ 0.012	1.3 $\pm$ 0.3	0.16 $\pm$ 0.03	0.52 $\pm$ 0.17
DB-201533	0.026 $\pm$ 0.004	2.3 $\pm$ 0.5	0.22 $\pm$ 0.03	0.51 $\pm$ 0.11
DB-201534	0.020 $\pm$ 0.008	3.6 $\pm$ 1.5	1.2 $\pm$ 0.5	0.58 $\pm$ 0.31
DB-201047	0.026 $\pm$ 0.002	1.1 $\pm$ 0.2	0.094 $\pm$ 0.014	0.47 $\pm$ 0.12
DB-201044	0.095 $\pm$ 0.012	0.8 $\pm$ 0.1	0.16 $\pm$ 0.02	0.61 $\pm$ 0.10

## Literature

1. Chen P., Bo L., Ling O.-Y. "Role of estrogen receptors in health and disease." *Frontiers in endocrinology* 13 (2022): 839005.

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