

Perseus Proteomics Inc.

30-1 Nihonbashi-hakozakicho, Chuo-ku,

Tokyo, 103-0015, Japan

TEL: +81-3-6264-8268 FAX: +81-3-3668-7776

<https://www.ppmx.com>

order@ppmx.com

Anti human ER beta mouse monoclonal antibody

ER beta: Estrogen Receptor beta

Code No. PP-PPZ0506-00

Clone No. PPZ0506

RRID AB_3753406

Isotype IgG2b

Host mouse

Conjugate none

Alias NR3A2, ESR2, ER-beta, ERβ

UniProt ID Q92731

Entrez Gene ID 2100 (human)

Specificity This antibody specifically recognizes human ER beta. It does not recognize human ER alpha. Reactivity with other species has not been tested.

Immunogen Baculovirus-expressed recombinant human ER beta (2–88 aa) .

Remarks Application example with optimized protocol for ER beta immunohistochemistry is available [here](#).



Concentration 1 mg/mL

Volume 100 µL

Formulation Physiological saline with 0.1% sodium azide as a preservative.

Purification Ammonium sulfate fractionation

Origin Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human ER beta (2–88 aa) .

Storage Store at 2–8°C for up to one month. For long-term storage, aliquot and store at –20°C or below. Repeated freezing and thawing should be avoided, as it may cause degradation and result in reduced performance.

Notes Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

Application	Recommended Conc. *	Data †	References ‡	
ChIP (Chromatin immunoprecipitation)	—	—	5, 7, 9, 12§	§; ChIP-reChIP
IHC-P (Immunohistochemistry-Paraffin)	—	—	2, 3, 6, 8, 12	
IHC-Fr (Immunohistochemistry-Frozen)	—	—	10	
IHC-P (IF) (Immunohistochemistry-Paraffin, Immunofluo.)	—	—	14¶	¶; dual IF
ICC-IF (Immunocytochemistry, Immunofluorescence)	—	—	3	
IP (Immunoprecipitation)	decide by use	—	2	
ELISA	0.2 µg/mL	Fig. 1	—	
WB (Western Blot)	1 µg/mL	—	1, 2, 3, 5, 7, 8, 9, 12	

* : Optimal dilutions/concentrations should be determined by the user.

† : Data figures are shown on page 2.

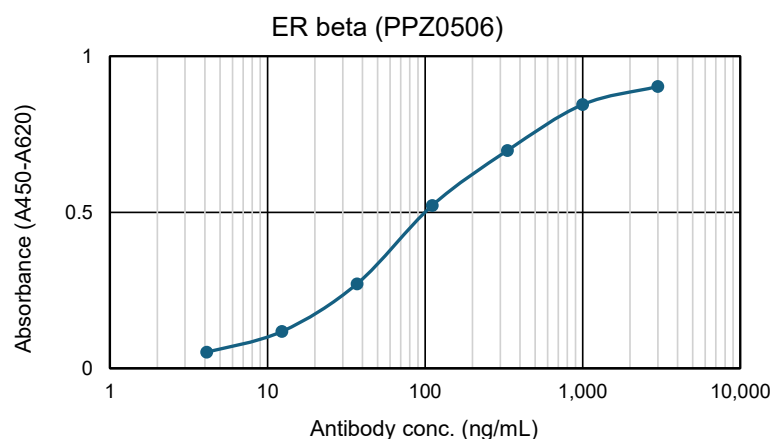
‡ : References are listed on page 2.



Full online PDF datasheet available here

Application Data

Fig. 1 Antigen-coated ELISA



Wells were coated with **human ER beta (2-88 aa ; expressed in baculovirus)** at 1 µg/well overnight at 4°C. After blocking with non-fat dry milk for 1 h at room temperature (RT) and washing, serially diluted **anti-ER beta antibody (PPZ0506)** solutions were added to each well and incubated at RT. The plate was washed, incubated with HRP-conjugated anti-mouse IgG (1:15,000) at RT, washed again, and visualized with TMB reagent.

References

1. Bialesova, Lucia, et al. *Oncotarget* 8.44 (2017): 76622-76633. [PMID: 29100336](#)
2. Andersson S, et al. *Nat Commun.* 2017;8:15840. [PMID: 28643774](#)
3. Ishii H, et al. *Int J Mol Sci.* 2019;20(24):6312. [PMID: 31847265](#)
4. Zhou M, et al. *Sci Rep.* 2019;9(1):6124. [PMID: 30992459](#)
5. Indukuri R, et al. *Int J Cancer.* 2021;149(3):692-706. [PMID: 33754337](#)
6. Ozawa M, et al. *Acta Histochem Cytochem.* 2022;55(5):159-168. [PMID: 36405553](#)
7. Song D, et al. *Front Endocrinol (Lausanne).* 2022;13:930227. [PMID: 35872983](#)
8. Schröder SK, et al. *Biomedicines.* 2022;10(12):3100. [PMID: 36551855](#)
9. Huang D, et al. *Cancers (Basel).* 2022;14(13):3098. [PMID: 35804870](#)
10. Morishita M, et al. *Biol Sex Differ.* 2023;14(1):89. [PMID: 38111056](#)
11. Ivan Nalvarte and Per Antonson. *Receptors* 2023, 2, 116–126 [DOI: 10.3390/receptors2010007](#)
12. Birgersson M, et al. *BMC Biol.* 2023;21(1):277. [PMID: 38031019](#)
13. Wang X, et al. *Cancers (Basel).* 2025;17(13):2132. [PMID: 40647431](#)
14. Soma M, et al. *Histochem Cell Biol.* 2026;164(1):4. [PMID: 41543558](#)