Datasheet

Anti-ERβ2 Clone 57/3

Product Name	Anti Human ERβ2 Clone 57/3
Catalogue Number	57/3
Clone, Isotype	57/3, IgG1
Format	IgG
Tested Applications	IHC-P, WB, IF

Description:
Estrogen receptors are commonly over-expressed in cancers. Clone 57/3 recognizes Estrogen Receptor Beta (ERβ) 2 and is useful in determining the expression of ERβ2 in cancer cells via various analysis methods.

Product Details:

Form in stock: IgG, purified – 1.0 mg/mL. Also available as unpurified supernatant.

Host: Mouse

Specificity: Recognizes ERβ2 isomer at sequence CGMKMETLLPEATMEQ.

Human Histology positive control: Testis

Fusion partner: Spleen cells from immunised Balb/c mice were fused with cells of the SP2/0 myeloma cell line.

Storage: Store at +4°C or -20°C. Avoid repeated freezing and thawing.

Shelf life: 18 months from date of dispatch.

Regulatory/ Restrictions: For research and commercial purposes.

Applications	Suggested Dilution
Immunohistochemistry – Paraffin	1:50-1:500
Western Blot	1:500 [3,4,8]
Immunofluorescence	1:100 [5]

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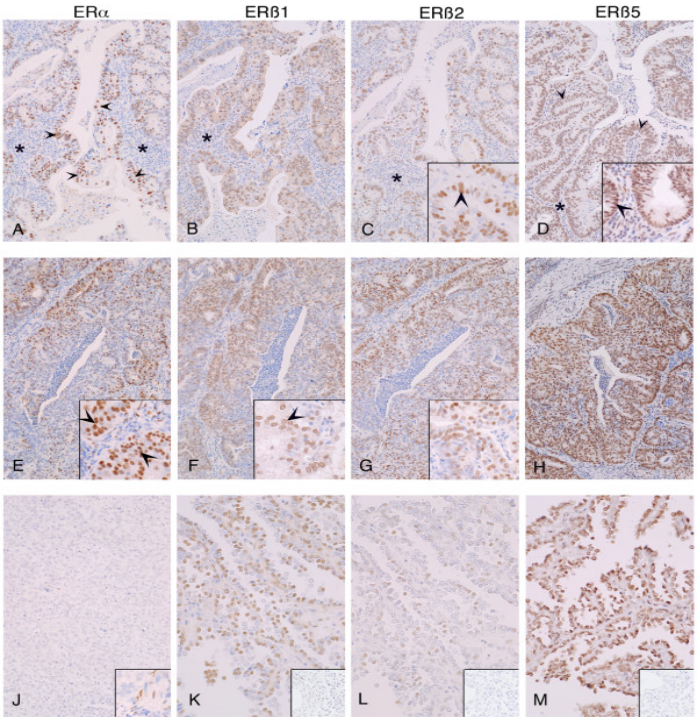
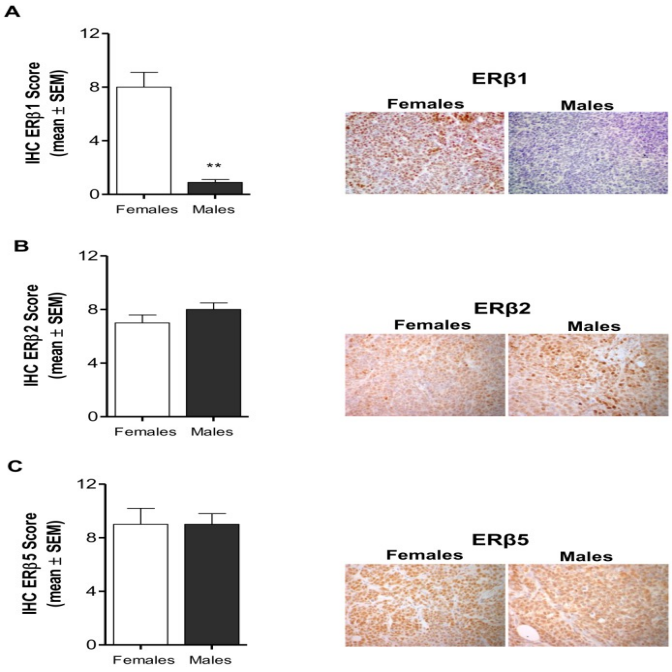
Applications:



Clone 57/3 used to detect expression of ERβ2 in cancer tissue by **IHC-P**

Image caption: Immunoexpression of ERs in endometrial cancers. Tissues were classified as well (A-D), moderately (E-H) or poorly (J-M) differentiated; ...immunoexpression of ERβ1, 2, 5 was readily detected (K. L, M). Inserts in panels K, L, and M show negative controls for ERβ1, ERβ2 and ERβ5 antibodies respectively generated using primary antibodies pre-absorbed with specific peptides used for immunisation. Asterisks (*) label the stromal compartment that was well defined in the well differentiated cancers. (Collins, F et al.)

Dilution used: 1:30



Clone 57/3 used to detect expression of ERβ2 in cancer tissue by **IHC-P**

Image caption: A) Immunostaining for ERβ1 was significantly higher in tumors from females compared to males (**p<0.01); **B)** and **C)** Tumor levels of ERβ2 and ERβ5 did not significantly differ between females and males. All results are expressed as the mean ± SEM (n=6 tumors/group). Representative stained section of tumors from females and males are shown (magnification 40x). IHC, immunohistochemical score. (Ciucci, A et al.)

Dilution used: 1:100

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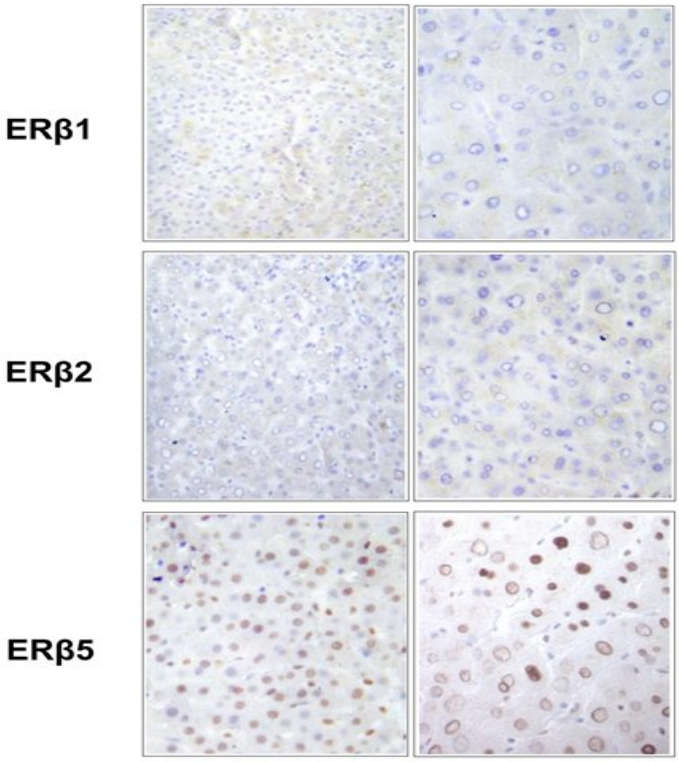
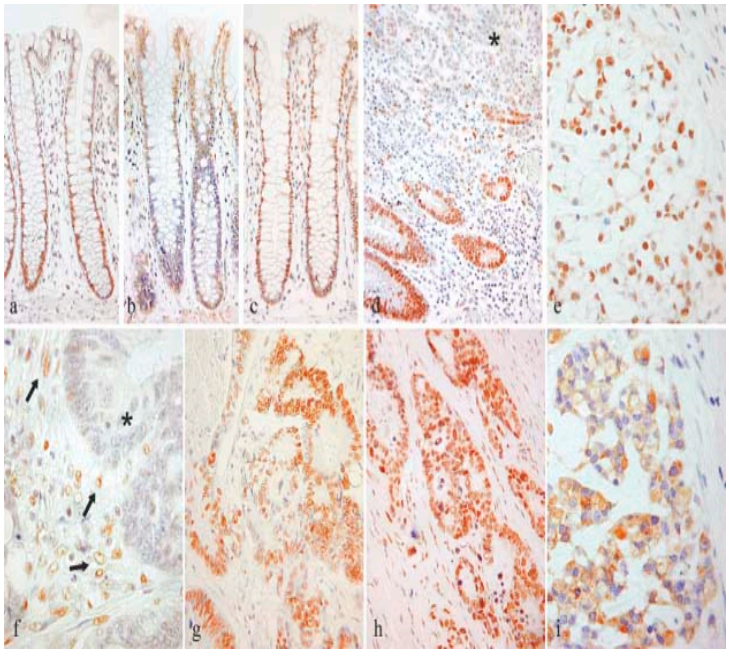


Clone 57/3 used to detect ERβ2 expression in normal human liver by **IHC-P**
Image caption: Staining pattern of the ERß isoforms in human liver. In order to confirm the specificity of the ERß antibodies used in the study, we immunostained sections of human healthy liver, showing that ERß1 and ERß2 isoforms are not expressed, while specific nuclear ERß5 immunoreactivity is detected (magnification 20x and 40x). This pattern of ERß isoforms immunoreactivity is consistent with previous descriptions. (Ciucci, A et al.)
Dilution used: 1:100



Clone 57/3 used to detect expression of ERβ2 in colorectal tissue by **IHC-P**
Image caption: Examples of ERβ1 (a, d, e), ERβ2 (b, f, g), ERβ5 (c, h) and TFF1 (i) immunohistochemistry performed on normal colorectal epithelium (a–c) and colorectal carcinoma (d–i)... (Wong, N. A et al.)
Dilution used: 1:50

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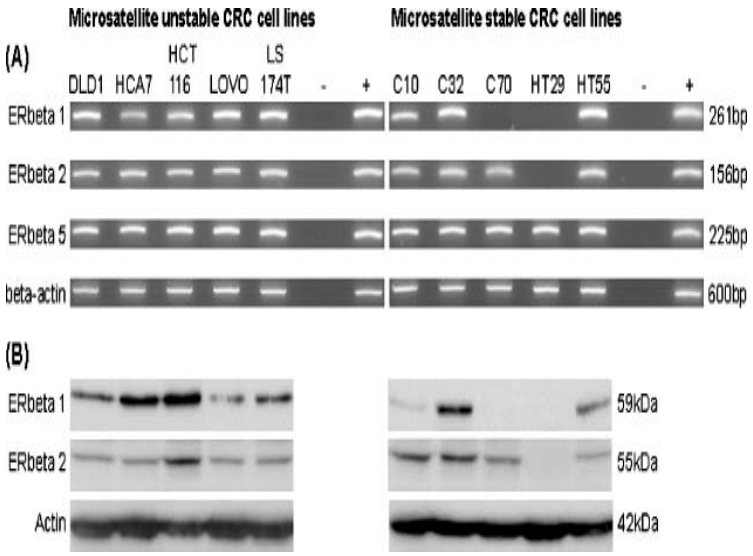
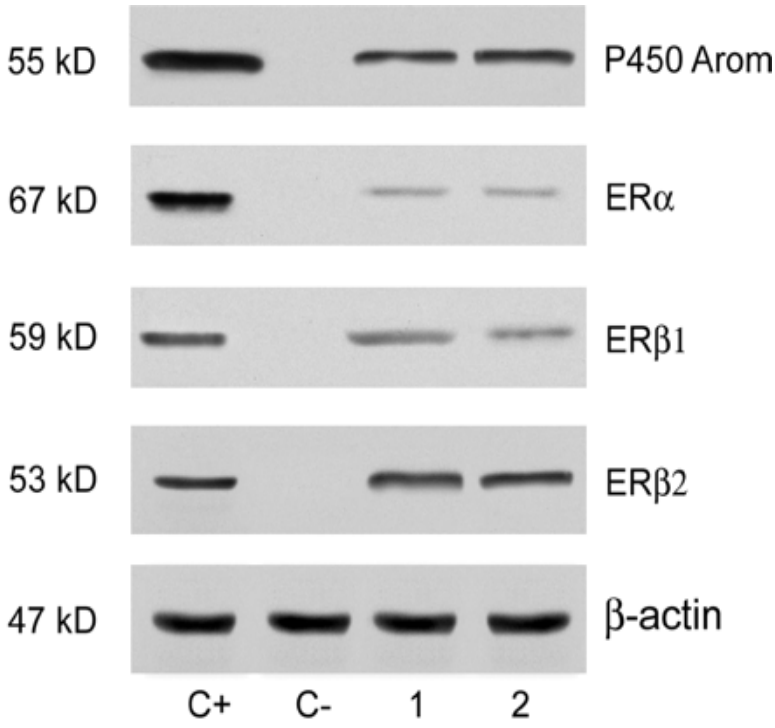


Clone 57/3 used to detect expression of ERβ2 in colorectal tissue by **Western Blot**
Image caption: (A) ERβ1, 2 and 5 mRNA expression (assessed by RT-PCR) and (B) ERβ1 and 2 protein expression (assessed by western blotting) by 10 colorectal carcinoma cell lines... (Wong, N. A et al.)
Dilution used: 1:500



Clone 57/3 used to detect expression of ERβ2 in Leydig cell tumors by **Western Blot**
Image caption: Immunoblots of aromatase and estrogen receptors from protein extracts of Leydig cell tumors and control tissues. P450arom: rat ovary (C+), negative control (C−), Leydig cell tumors (lanes 1 and 2). ERα: rat ovary (C+), negative control (C−), Leydig cell tumors (lanes 1 and 2). $ERβ_1$: control human testis (C+), negative control (C−), Leydig cell tumors (lanes 1 and 2). $ERβ_2$: control human testis (C+), negative control (C−), Leydig cell tumors (lanes 1 and 2). β-Actin serves as a loading control. (Carpino, A et al.)
Dilution used: 1:500

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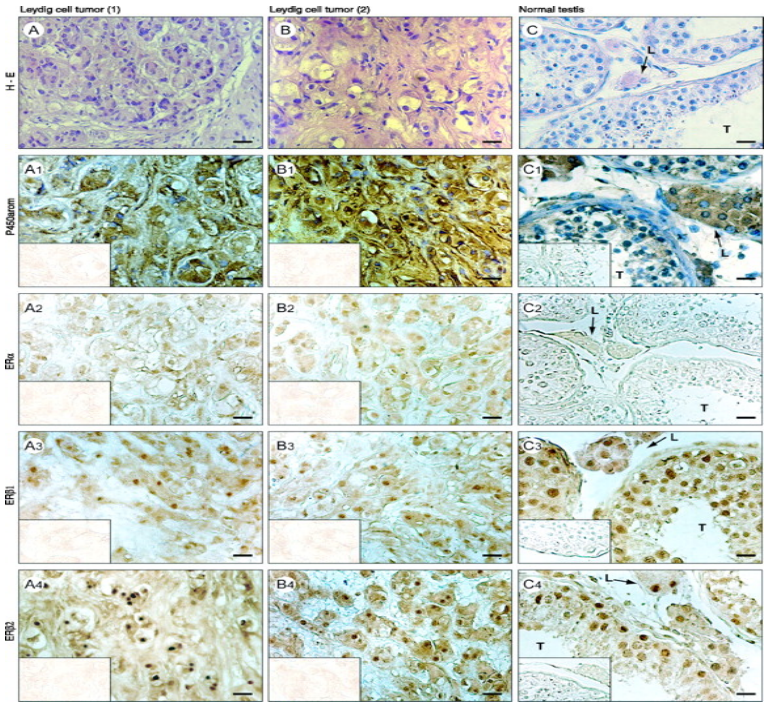
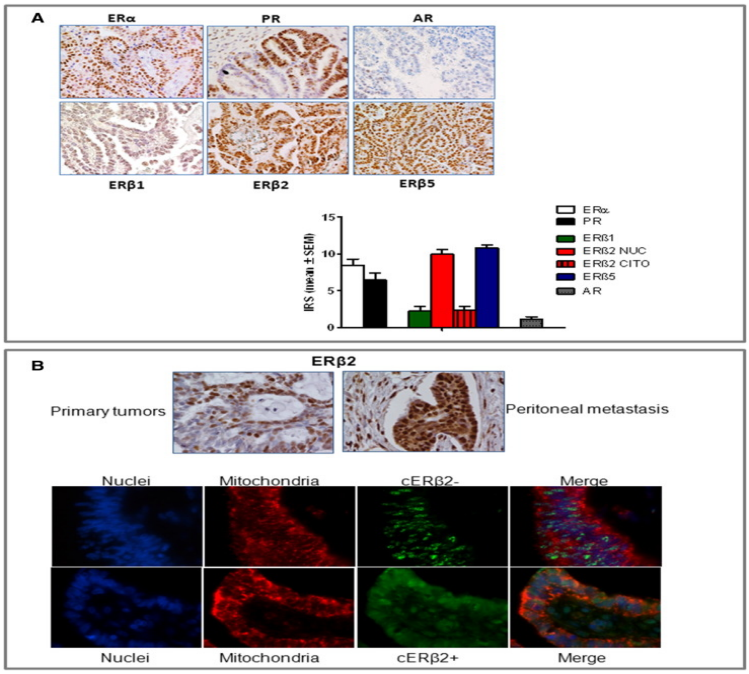


Clone 57/3 used to detect expression of ERβ2 in Leydig cell tumors by **IHC-P**

Image caption: Morphology and immunolocalization of aromatase and estrogen receptors in Leydig cell tumors (A and B) and control testis (C). A–C: Hematoxylin–eosin staining. A1–C1: Aromatase immunolocalization. A2–C2: ERα immunoreactivity. A3–C3: $ERβ_1$ immunodetection. A4–C4: $ERβ_2$ immunolocalization. L, Leydig cells; T, seminiferous tubule. (Carpino, A et al.)

Dilution used: 1:100



Clone 57/3 used to detect expression of ERβ2 in ovarian cancer cells by **Immunofluorescence**

Image caption: A) Representative pictures for ERα, ERβ1, ERβ2, ERβ5, PR, and AR immunostaining in LGSOC patients (magnification 20 ×) and bar chart showing levels of hormone receptor expression (mean ± SEM, n = 25). Results are expressed as IRS (Immunoreactive receptor score). B) Representative pictures showing exclusive nuclear and nuclear/cytoplasmic ERβ2 expression in primary tumor and matched peritoneal metastasis.(Buttarelli, M et al.)

Dilution used: 1:100

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References:

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