Datasheet

Anti-ERβ1 Clone PPG5/10

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<th>Product Name</th>
<th>Anti Human ERβ1 Clone PPG5/10</th>
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<tr>
<td>Catalogue Number</td>
<td>PPG5/10</td>
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<tr>
<td>Clone, Isotype</td>
<td>PPG5/10, IgG2a</td>
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<tr>
<td>Format</td>
<td>IgG</td>
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<tr>
<td>Tested Applications</td>
<td>IF, IHC, WB</td>
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Description:
Estrogen receptors are commonly over-expressed in cancers. Clone PPG5/10 recognizes Estrogen Receptor Beta (ERβ) 1 and is useful in determining the expression of ERβ1 in cancer cells, mainly via immunohistochemistry.

Product Details:

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

Host: Mouse

Specificity: Synthetic peptide CEDSKSKEGSQNPQSQ derived from the C terminus of human ERβ1.

Human Histology positive control: Ovary

Fusion partner: Spleen cells from immunised Balb/c mice were fused with cells of the mouse 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.

<table>
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<th>Applications</th>
<th>Suggested Dilution</th>
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<tr>
<td>Immunofluorescence</td>
<td>1:250</td>
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<tr>
<td>Immunohistochemistry</td>
<td>1:5-1:50</td>
</tr>
<tr>
<td>Western Blot</td>
<td>1:500</td>
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The Innovation Centre, 217 Portobello, Sheffield, S1 4DP
Tel: +44(0)114 224 2235 Email: info@bioservuk.com

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Applications:

Clone PPG5/10 used to detect expression of ERβ1 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; main panels show closely adjacent sections from three cancer blocks to allow direct comparisons. (Collins, F et al.)

**Dilution used:** 1:40

Clone PPG5/10 used to detect expression of ERβ1 in cancer tissue by IHC-P

**Image caption:** Prostate carcinoma Gleason score 3+3 showing >70% positive nuclei stained by IHC for ER-b. (Asgari, M et al.)

**Dilution used:** 1:2
Clone PPG5/10 used to detect expression of ERβ1 in cancer tissue by immunofluorescence

**Image caption:** Expression of PR paralleled that of ERα not ERβ... C. Fluorescent co-localisation as carried out using antibodies specific for ERα or ERβ1 (both green) and PR (red). The cancers illustrated were classified as well (code 1614), moderately (code 1930) or poorly (c, codes 0001 and 1176) differentiated; at least 8 samples were analysed in each group. Co-expression was detected as yellow/orange immunofluorescence. In the well and moderately differentiated cancers expression of PR was most intense in epithelial cells and broadly overlapped with that of ERα (e.g. in cells indicated by arrows)... (Collins, F et al.)

**Dilution used:** 1:40

Clone PPG5/10 used to detect expression of ERβ1 in cancer tissue by IHC-P

**Image caption:** Immunohistochemical localization of ER-β using PPG5/10 antibody... (Torlakovic, E et al.)

**Dilution used:** 1:2
Clone PPG5/10 used to detect expression of ERβ1 in cancer tissue by IHC-P

Image caption: Expression of estrogen receptor (ER)β (indicated by arrows) in normal syncytiotrophoblasts preeclamptic (A), syncytiotrophoblast (B), and intrauterine growth restriction (C). Expression of ERβ was also detected in extravillous trophoblast cells of normal-term placentas (D), preeclamptic placentas (E), and intrauterine growth-restricted placentas (F); X25 lens (Schiessl, B et al.)

Dilution used: 1:700

Clone PPG5/10 used to detect expression of ERβ1 in cancer tissue by Western Blot

Image caption: .. (B) Western blot of ERβ detection in villous trophoblast cell lysate. Lane 1: normal placenta; Lane 2: preeclamptic placenta; Lane 3: IUGR placenta... (Schiessl, B et al.)
Clone PPG5/10 used to detect expression of ERβ1 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 PPG5/10 used to detect expression of ERβ1 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
References: