Datasheet: MCA1974GA

Description: MOUSE ANTI HUMAN ESTROGEN RECEPTOR BETA 1

Specificity: ESTROGEN RECEPTOR BETA 1

Format: Purified

Product Type: Monoclonal Antibody

Clone: PPG5/10

Isotype: IgG2a

Quantity: 0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<td>Flow Cytometry</td>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections;

0.05M glycine/EDTA pH 8.0 see [See Carpino et al.](http://example.com) or sodium citrate buffer pH 6.0 are recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Primate, New World primate, Llama, Rat, Marmoset, Pig, Sheep, Cynomolgus monkey, Rhesus Monkey, Turtle, Goose

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

Approx. Protein Concentrations

IgG concentration 1.0 mg/ml
**Immunogen**
Synthetic peptide sequence CSPAEDSKSKEGSQNPQSQ from the C-terminal region of the human estrogen receptor beta 1 isoform.

**External Database Links**
- UniProt: Q92731
- Related reagents

**Entrez Gene:**
- 2100 ESR2
- Related reagents

**Synonyms**
ESTRB, NR3A2

**Fusion Partners**
Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

**Specificity**
Mouse anti Human estrogen receptor beta 1, clone PPG5/10 recognizes the estrogen receptor beta 1 (ERB1), one of several isoforms of estrogen receptor (ER) which can be used in conjunction with progesterone receptor (PR) and HER2/neu (CD340), to help determine both prognosis and the effectiveness of hormonal therapy, in breast cancer patients. Prognosis and survival rate varies greatly depending on cancer type, stage and treatment.

Mouse anti Human estrogen receptor beta 1, clone PPG5/10 is increasingly being utilized in the immunohistochemical staining of formal fixed paraffin embedded tissue, in preference to ligand binding assays, for the detection of ER/PR. ER/PR is present in approximately 75% to 80% of breast tumors, and breast cancer cells with these receptors depend on the hormones estrogen and/or progesterone to grow (Saunders, P. et al., 2002 and Nelson, A.W. et al., 2017).

Mouse anti Human estrogen receptor beta 1, clone PPG5/10 can be used to demonstrate the nuclear presence of ERB1 within cells of the breast (Shaaban, A.M. et al., 2008), ovary, uterus, oviduct, testis, prostate, bladder and male reproductive ducts.

**Histology Positive Control Tissue**
Ovary or breast carcinoma

**References**
adenocarcinoma. Prostate. 54: 79-87.

Further Reading
Storage
Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life
18 months from date of despatch

Health And Safety Information

Regulatory
For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)  *Alk. Phos., HRP*
Goat Anti Mouse IgG (STAR77...)  *HRP*
Rabbit Anti Mouse IgG (STAR12...)  *RPE*
Rabbit Anti Mouse IgG (STAR8...)  *DyLight®680*
Rabbit Anti Mouse IgG (STAR13...)  *HRP*
Goat Anti Mouse IgG (STAR76...)  *RPE*
Goat Anti Mouse IgG (STAR70...)  *FITC*
Goat Anti Mouse IgG (H/L) (STAR117...)  *Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP*

Goat Anti Mouse IgG (Fc) (STAR120...)  *FITC, HRP*
Rabbit Anti Mouse IgG (STAR9...)  *FITC*
Human Anti Mouse IgG2a (HCA037...)  *FITC, HRP*

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)