Datasheet: MCA2279GT

Description: MOUSE ANTI HUMAN ESTROGEN RECEPTOR BETA 2

Specificity: ESTROGEN RECEPTOR BETA 2

Format: Purified

Product Type: Monoclonal Antibody

Clone: 57/3

Isotype: IgG1

Quantity: 50 µg

RRID: AB_2262592

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>
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<th>No</th>
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<th>Suggested Dilution</th>
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Where this antibody 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 antibody for use in their own system using the appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose. Glycine/EDTA preparations have also been used with success in some tissues.

Target Species: Human

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

Immunogen: Synthetic peptide derived from the C terminus of the human estrogen receptor beta 2 isomer, CGMKMETLLPEATMEQ.
Spleen cells from immunized Balb/c mice were fused with cells of the SP2/0 myeloma cell line.

**Specificity**

Mouse anti Human Estrogen Receptor beta 2 antibody, clone 57/3 recognizes the estrogen receptor beta 2 isoform, expressed in cell nuclei of a range of human tissues including the ovary, placenta, testis and vas deferens. No cross-reactivity is seen with estrogen receptor beta 1 isoform.

The detection of estrogen (ER) and progesterone (PR) receptors using immunohistochemical staining of formal fixed paraffin embedded (FFPE) tissue, has gradually replaced ligand binding assays (LBA), to become the most common method for the determination of the ER/PR status of breast tumors. Approximately 75% to 80% of breast tumors have estrogen and/or progesterone receptors, and the presence of these receptors helps determine both the patient’s prognosis and the effectiveness of hormonal therapy.

**Histology Positive Control Tissue**

Testis

**References**

2. Critchley, H.O. et al. (2002) Wild-type estrogen receptor (ERbeta1) and the splice variant (ERbeta1cx/beta2) are both expressed within the human endometrium throughout the normal menstrual cycle. J Clin Endocrinol Metab. 87 (11): 5265-73.
6. Collins, F. et al. (2009) Expression of oestrogen receptors, ERalpha1, ERbeta1, and ERbeta variants, in endometrial cancers and evidence that prostaglandin F may play a role in regulating expression of ERalpha. BMC Cancer. 9: 330.
11. Critchley, H.O. et al. (2002) Wild-type estrogen receptor (ERbeta1) and the splice variant (ERbeta1cx/beta2) are both expressed within the human endometrium throughout the normal menstrual cycle. J Clin Endocrinol Metab. 87 (11): 5265-73.
12. Ciucci, A. et al. (2014) Gender effect in experimental models of human medulloblastoma: does...
the estrogen receptor β signaling play a role? PLoS One. 9 (7): e101623.

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.

Guarantee
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...)
Goat Anti Mouse IgG (STAR77...)
Rabbit Anti Mouse IgG (STAR12...)
Rabbit Anti Mouse IgG (STAR8...)
Rabbit Anti Mouse IgG (STAR13...)
Goat Anti Mouse IgG (STAR76...)
Goat Anti Mouse IgG (STAR70...)
Goat Anti Mouse IgG (Fc) (STAR120...)
Rabbit Anti Mouse IgG (STAR9...)
Goat Anti Mouse IgG (H/L) (STAR117...)

Goat Anti Mouse IgG IgA IgM (STAR87...)
Goat Anti Mouse IgG (STAR77...)
Rabbit Anti Mouse IgG (STAR12...)
Rabbit Anti Mouse IgG (STAR8...)
Rabbit Anti Mouse IgG (STAR13...)
Goat Anti Mouse IgG (STAR76...)
Goat Anti Mouse IgG (STAR70...)
Goat Anti Mouse IgG (Fc) (STAR120...)
Rabbit Anti Mouse IgG (STAR9...)
Goat Anti Mouse IgG (H/L) (STAR117...)

Alk. Phos., HRP
HRP
RPE
DyLight®800
HRP
RPE
FITC
HRP
FITC
Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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