

Datasheet: MCA1799T BATCH NUMBER 161876

Description:	MOUSE ANTI HUMAN ESTROGEN RECEPTOR ALPHA		
Specificity:	ESTROGEN RECEPTOR ALPHA		
Format:	S/N		
Product Type:	Monoclonal Antibody		
Clone:	6F11		
Isotype:	lgG1		
Quantity:	0.1 ml		

## **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 <a href="https://www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	NO	Not Determined	Suggested Dilution
Flow Cytometry				
Immunohistology - Frozen (1)	•			1/40 - 1/60
Immunohistology - Paraffin (2)	•			1/40 - 1/80

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 appropriate negative/positive controls.

- (1) The use of Zamboni's fixative is recommended for best results
- (2)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.

External Database Links	UniProt:
Immunogen	Recombinant human estrogen receptor (alpha form).
Preservative Stabilisers	<0.1% Sodium Azide (NaN <sub>3</sub> )
Product Form	Tissue Culture Supernatant - liquid
Target Species	Human

	P03372 Related reagents
	Entrez Gene:  2099 ESR1 Related reagents
Synonyms	ESR, NR3A1
RRID	AB_2102069
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse p3-NS1-Ag4-1 myeloma cell line.
Specificity	Mouse anti Human estrogen alpha antibody, clone 6F11 recognizes the human estrogen receptor alpha chain (ER $\alpha$ ), also known as the estradiol receptor or nuclear receptor subfamily 3 group A member 1. ER $\alpha$ is a ~65 kDa steroid hormone receptor containing an N-terminal ( <u>AF-1</u> ) ligand independent transactivation domain, a DNA binding domain and a C-terminal ligand binding domain which overlaps with an ( <u>AF-2</u> ) domain. ER $\alpha$ binds to DNA as a homodimer ( <u>Klinge 2001</u> ) and can also form heterodimers with Estrogen receptor beta.
	The detection of estrogen (ER) and progesterone (PR) receptors using immunohistochemical staining of formalin fixed, paraffin embedded (FFPE) tissue, has gradually replaced ligand binding assays, to become the most common method for the determination of the ER/PR status of breast tumors (Yaziji et al. 2008). Approximately 75% to 80% of breast tumors have estrogen and/or progesterone receptors, and the presence of these receptors helps determine both the patients prognosis and the effectiveness of hormonal therapy (Bhargava et al. 2012).
	Mouse anti human estrogen alpha antibody, clone 6F11 has been used successfully for identification of ER $\alpha$ on breast cancer cell lysates using Western blotting and for the immunohistochemical detection of ER $\alpha$ in breast cancer tissues ( <u>Ambroise et al. 2011</u> ).
Histology Positive Control Tissue	Breast carcinoma
References	<ol> <li>Bevitt, D.J. <i>et al.</i> (1997) New monoclonal antibodies to oestrogen and progesterone receptors effective for paraffin section immunohistochemistry. <u>J Pathol. 183 (2): 228-32.</u></li> <li>Jongen, V. <i>et al.</i> (2009) Expression of estrogen receptor-alpha and -beta and progesterone receptor-A and -B in a large cohort of patients with endometrioid endometrial cancer. <u>Gynecol Oncol. 112: 537-42.</u></li> <li>Ambroise, M. <i>et al.</i> (2011) Immunohistochemical profile of breast cancer patients at a tertiary care hospital in South India. <u>Asian Pac J Cancer Prev. 12: 625-9.</u></li> <li>Droog, M. <i>et al.</i> (2017) Estrogen receptor α wields treatment-specific enhancers between morphologically similar endometrial tumors. <u>Proc Natl Acad Sci U S A. 114 (8): E1316-E1325.</u></li> </ol>

pathological features of carcinoma breast Apollo Medicine. 10 (4): 313-7.

5. Krishnaswamy, U. et al. (2013) Correlation of Her-2 neu over-expression with clinico

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at

-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in

frost-free freezers is not recommended.

Guarantee Guaranteed until date of expiry. Please see product label.

Health And Safety Information

Material Safety Datasheet documentation #10055 available at:

https://www.bio-rad-antibodies.com/SDS/MCA1799T

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**Regulatory** For research purposes only

### Related Products

# **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) 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®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Goat Anti Mouse IgG (STAR77...) HRP

Rabbit Anti Mouse IgG (STAR13...) HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M389332:210806'

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