

Datasheet: MCA1799 BATCH NUMBER 166540

Description:	MOUSE ANTI HUMAN ESTROGEN RECEPTOR ALPHA		
Specificity:	ESTROGEN RECEPTOR ALPHA		
Format:	S/N		
Product Type:	Monoclonal Antibody		
Clone:	6F11		
Isotype:	lgG1		
Quantity:	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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry			•		
	Immunohistology - Frozen (1)				1/40 - 1/60	
	Immunohistology - Paraffin (2)	•			1/40 - 1/80	
	ELISA					
	Immunoprecipitation					
	Western Blotting	•			1/50 - 1/100	
	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)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.					
Target Species	Human					
Product Form	Tissue culture supernatant - liquid					
Preservative Stabilisers	0.09% sodium azide (NaN ₃)					
Immunogen	Recombinant human estrogen receptor (alpha form).					

External Database Links	UniProt:				
	P03372 Related reagents				
	Entrez Gene:				
	2099 ESR1 Related reagents				
Synonyms	ESR, NR3A1				
RRID	AB_2102070				
Fusion Partners	Spleen cells from immunized 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 α), also known as the estradiol receptor or nuclear receptor subfamily 3 group A member 1. ER α is a ~65 kDa steroid hormone receptor containing an N-terminal (AF-1) ligand independent transactivation domain, a DNA binding domain and a C-terminal ligand binding domain which overlaps with an (AF-2) domain. ER α binds to DNA as a homodimer (Klinge 2001) 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 <i>et al.</i> 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 <i>et al.</i> 2012).				
	Mouse anti human estrogen alpha antibody, clone 6F11 has been used successfully for identification of ER α on breast cancer cell lysates using Western blotting and for the immunohistochemical detection of ER α in breast cancer tissues (<u>Ambroise <i>et al.</i> 2011</u>).				
Histology Positive Control Tissue	Human breast carcinoma				
References	 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> 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> 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> Krishnaswamy, U. <i>et al.</i> (2013) Correlation of Her-2 neu over-expression with clinico pathological features of carcinoma breast <u>Apollo Medicine. 10 (4): 313-7.</u> 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):</u> 				

	<u>E1316-E1325.</u>			
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 #10053 available at: https://www.bio-rad-antibodies.com/SDS/MCA1799 10053			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	HRP							
Rabbit Anti Mouse IgG (STAR12)	RPE							
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>								
Goat Anti Mouse IgG (STAR76)	RPE							
Rabbit Anti Mouse IgG (STAR13)	HRP							
Goat Anti Mouse IgG (STAR70)	FITC							
Goat Anti Mouse IgG (H/L) (STAR117) <u>Alk. Phos., DyLight®488</u> , <u>DyLight®550</u> ,								
	DyLight®650, DyLight®680, DyLight®800	<u>)</u> ,						
	FITC, HRP							
Rabbit Anti Mouse IgG (STAR9) <u>FITC</u>								
Goat Anti Mouse IgG (Fc) (STAR120) <u>FITC</u> , <u>HRP</u>								
Recommended Negative Controls								
MOUSE IgG1 NEGATIVE CONTROL (MCA928)								
North & South Tel: +1 800 265 7376 Worldwid		Tel: +49 (0) 89 8090 95 21						
America Fax: +1 919 878 3751	Fax: +44 (0)1865 852 739	Fax: +49 (0) 89 8090 95 50						
Email: antibody_sales_us@bio-rad.com	Email: antibody_sales_uk@bio-rad.com	Email: antibody_sales_de@bio-rad.com						
To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets								

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