

Product datasheet for **SM1715**

Estrogen Receptor 1 (ESR1) Mouse Monoclonal Antibody [Clone ID: 6F11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6F11
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1/50-1/100. Immunohistochemistry on Frozen Sections: 1/40-1/60. Zambonis fixative recommended for best results. Immunohistochemistry on Paraffin Sections: 1/40-1/80. 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. Recommended Positive Control: Breast carcinoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human estrogen receptor (alpha form). Spleen cells from immunised mice were fused with cells of the mouse p3-NS1-Ag4-1 myeloma cell line.
Specificity:	This antibody recognises the Estrogen Receptor alpha chain. The Oestrogen Receptor status of breast cancer tissues is an important parameter in determining prognosis and response to therapy.
Formulation:	State: Supernatant State: Lyophilized Tissue Culture Supernatant containing 0.09% Sodium Azide
Reconstitution Method:	Restore with 1 ml distilled water
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C Prior to reconstitution and at -20°C Following reconstitution. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch
Gene Name:	estrogen receptor 1



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Database Link: [Entrez Gene 2099 Human P03372](#)

Background: Estrogen Receptor alpha is a 65 kDa protein and a member of the steroid family of nuclear receptors. Estrogen Receptor alpha is a ligand-activated transcription factor that, when bound to estrogen, induces a conformational change that allows dimerization and binding to estrogen response element sequences. When bound to DNA, Estrogen Receptor alpha can positively or negatively regulate gene transcription. Like other steroid hormone receptors, Estrogen Receptors are intracellular proteins. Estrogen Receptors play an important role in regulating mammary gland growth and differentiation. Breast tumors that are ER positive may also show a more favorable response to anti-estrogen therapies

Synonyms: ER alpha, Estradiol receptor, ESR1, ESR, NR3A1