

## Mouse Monoclonal Antibody to ER-alpha

<b>Catalogue Number</b>	sAP-0040
<b>Target Molecule</b>	<b>Name:</b> ER-alpha <b>Aliases:</b> ER; ESR1; Era; ESRA <b>MW:</b> N/A <b>Entrez Gene ID: 2099</b>
<b>Description</b>	The estrogen receptor (ER) is a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. Alternative splicing results in several ER mRNA transcripts, which differ primarily in their 5-prime untranslated regions. Two isoforms of the human ER, ERA and ER-beta, occur, each with distinct tissue and cell patterns of expression. Pelletier and El-Alfy (2000) studied the immunocytochemical localization of ESRA and ESRB in human reproductive tissues. In the ovary, ERB immunoreactivity was found in nuclei of granulosa cells of growing follicles at all stages from primary to mature follicles, interstitial gland, and germinal epithelium cells. Nuclear staining for ERA occurred in thecal, interstitial gland, and germinal epithelium cells. In the uterus, strong ERA immunostaining was found in the basal layer of the endometrium, and in the nuclei of the stromal cells of the endometrial glands. In the breast, ERB immunoreactivity was found in the nuclei of the basal layer of the mammary gland epithelium, and in the nuclei of the stromal cells of the mammary gland. In the prostate, ERB immunoreactivity was found in the nuclei of the basal layer of the prostate epithelium, and in the nuclei of the stromal cells of the prostate. In the testis, ERB immunoreactivity was found in the nuclei of the basal layer of the testicular epithelium, and in the nuclei of the stromal cells of the testicular tubules.
<b>Immunogen</b>	Purified recombinant fragment of human ER-alpha (410-592aa) expressed in E. Coli.
<b>Recitative Species</b>	Human
<b>Clone</b>	MM2B7;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Purified antibody in PBS containing 0.03% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Paech K. Science 1997, 277: 1508- 10. ; 2. Pertschuk LP,Cancer, 1996. 199677: 514- 9. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**