Category: Monoclonal Antibodies
Product Name: Mouse Monclonal Antibody to ER-alpha

Catalog Number: MAB-606020047

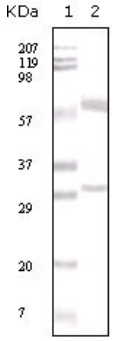

Figure 1: Western blot analysis using ER-alpha mouse mAb against human breast carcinoma tissue lysate..

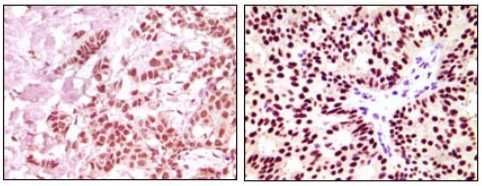

Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma, using ER-alpha mouse mAb showing nuclear expression with DAB staining.

Lot#: 0601
Clone#: 2B7
Host and isotype: Mouse IgG1
Size: 0.1mg
MW:
Aliases: ER; ESR1; Era; ESRA
Entrez Gene: 2099
Species reactivity: Human

Description
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 immunoreactivity was detected in nuclei of epithelial, stromal, and muscle cells.

Immunogen
Purified recombinant fragment of human ER-alpha (410-592aa) expressed in E. Coli.

Application
Western Bloting: 1/500 - 1/2000.
Immunohistochemistry: 1/200 - 1/1000.
ELISA: Propose dilution 1/10000.
Not yet tested in other applications.
Determining optimal working dilutions by titration test.

Formulation
Purified antibody in PBS containing 0.03% sodium azide.

Storage
Store at 4iæ, for long term storage, store at -20iæ.
Rrelated product

References
1. Paech K. Science 1997, 277: 1508- 10.
2. Pertschuk LP£¬Cancer, 1996. 199677: 514- 9.

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