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Monoclonal Antibody To Human Estrogen Receptor alpha

ER-alpha, Estradiol Receptor

Monoclonal antibody ER-B10 recognizes an epitope in the B region of the human Estrogen Receptor alpha. The two different forms of the estrogen receptor, usually referred to as α and β, can form hormone-activated dimers, and, since the two forms are coexpressed in many cell types, the receptors may form ERα (αα) or ERβ (ββ) homodimers or ERαβ (αβ) heterodimers. Estrogen receptor alpha and beta show significant overall sequence homology, and both are composed of five domains (A-F domains listed from the N- to C-terminus).

Product Number:	T-1428 (Lot 02AO1109)
Clone:	ER-B10
Host species, isotype:	Mouse IgM, kappa
Quantity:	100µl
Format:	undiluted ascites, liquid
	Contains 0.01% Kathon as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C
	Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC).
	Approximate working dilution for IHC: Frozen sections: 1:400 Paraffin sections: 1:100; microwave pretreatment for antigen retrieval recommended.
	Optimal dilutions should be determined by the end user.
	Suggested positive control: human uterus or brain (hypothalamus) sections; estrogen receptors are widely expressed in different tissue types.
	Please see **www.bma.ch** for protocols and general information.
Immunogen:	Peptide R151 to L165 from human ERα.
Antigen, epitope:	The antigen is Estrogen Receptor alpha, the epitope is located in the B region.

Antigen distribution:	The antigen has been described in endometrium, breast cancer cells, ovarian stroma cells, and the hypothalamus. In males, ERα protein is found in the epithelium of the efferent ducts.
Specificity:	**Human:** ERα.
	Other: does not react with chicken tissue.

Selected references

Eng FC, Barsalou A, Akutsu N, Mercier I, Zechel C, Mader S, White JH: Different classes of coactivators recognize distinct but overlapping binding sites on the estrogen receptor ligand binding domain. J Biol Chem. 1998 Oct 23;273(43):28371-7.

Hess, RA (2003). Estrogen in the adult male reproductive tract: A review. Reproductive Biology and Endocrinology **1** (52): 52

For *in vitro* research only. This product contains Kathon as a preservative.