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Monoclonal Antibody To Mouse / Human Estrogen Receptor beta
ER-beta

Monoclonal antibody 4ERβ-2D7 recognizes an epitope in the F region of the mouse and human Estrogen Receptor beta. 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).

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1429 (Lot 02PO1109)
Clone:	4ERβ-2D7
Host species, isotype:	Mouse IgG1 kappa
Quantity:	250µg
Format:	Affinity purified, lyophilized
	Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.5mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA) as a stabilizer, and 0.09% sodium azide as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC).
	Approximate working dilution for IHC: Frozen sections: 5µg/ml -10µg/ml (1:100) Paraffin sections: 2.5µg/ml -10µg/ml (1:50 - 1:100); pretreatment with Proteinase K for antigen retrieval is recommended
	Optimal dilutions should be determined by the end user
	Suggested positive control: ERs are widely expressed in different tissue types
	Please see **www.bma.ch** for protocols and general information
Immunogen:	Peptide C512 to Q530 from murine ERβ
Protein database:	human-Q92731

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Antigen, epitope:	The antigen is Estrogen Receptor beta, the epitope is locatedin the F region.
Antigen distribution:	The antigen has been described in kidney, brain, bone, heart, lungs, intestinal mucosa, prostate, and endothelial cells.
Specificity:	**Human:** ERβ.
	Other: Mouse ERβ. No cross-reactivity has been observed with ERα. Other species not tested.

Selected references

Heuzé ML, Guibal FC, Banks CA, Conaway JW, Conaway RC, Cayre YE, Benecke A, Lutz PG.: ASB2 is an Elongin BC-interacting protein that can assemble with Cullin 5 and Rbx1 to reconstitute an E3 ubiquitin ligase complex. J Biol Chem. 2005 Feb 18;280(7):5468-74.

For in vitro research only. This product contains sodium azide as a preservative.

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