



BMA BIOMEDICALS

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

Monoclonal antibody 4ER β -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 ER α ($\alpha\alpha$) or ER β ($\beta\beta$) homodimers or ER $\alpha\beta$ ($\alpha\beta$) 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-1429 (Lot 01PO1105)
Clone:	4ER β -2D7
Host species, isotype:	Mouse IgG1 kappa
Quantity:	250 μ g
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 0.01% Kathon as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
Applications:	Tested for immunohistochemistry (IHC). Approximate working dilution for IHC: Frozen sections: 5 μ g/ml (1:100) Paraffin sections: 2.5 - 5 μ g/ml (1:50 - 1:100); Proteinase K pretreatment for antigen retrieval 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 ER β .
Antigen, epitope:	The antigen is Estrogen Receptor beta, the epitope is located in the F region.

Antigen distribution: The antigen has been described in kidney, brain, bone, heart, lungs, intestinal mucosa, prostate, and endothelial cells.

Specificity: **Human:** ER β .

Other: Mouse ER β . No cross-reactivity has been observed with ER α . 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 Kathon as a preservative.