

# Estrogen Receptor beta Monoclonal Antibody (MC10), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotope	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	MC10
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_2572943

Applications	Tested	Dilution	Published
ELISA (ELISA)	✓	Assay-Dependent	
Immunocytochemistry (ICC)	✓	Assay-Dependent	
Immunofluorescence (IF)	✓	Assay-Dependent	
Immunohistochemistry (Paraffin) (IHC (P))	✓	30 µg/mL	
Immunoprecipitation (IP)	✓	Assay-Dependent	
Western Blot (WB)	✓	Assay-Dependent	

## Product Specific Information

**Description:** The MC10 monoclonal antibody recognizes all forms of human estrogen receptor (ER) beta. ER beta is a member of a superfamily of nuclear receptors, which are ligand-dependent transcription factors. ER beta like ER alpha, becomes activated by binding the hormone estrogen, causing a dissociation from chaperone proteins and subsequent dimerization with either ER beta or ER alpha. Unlike ER alpha, the result of ER beta signaling is thought to be anti-proliferative and proapoptotic. The MC10 clone recognizes full length ER beta as well as each of its splice variants.

**Applications Reported:** This MC10 antibody has been reported for use in immunoprecipitation, western blotting, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, microscopy, ELISA, and immunocytochemistry.

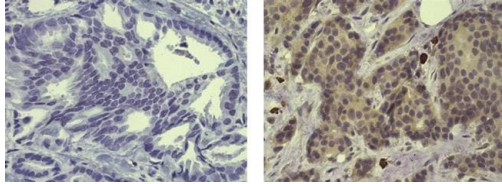
**Applications Tested:** This MC10 antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded human tissue using either low or high pH antigen retrieval and can be used at less than or equal to 30 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For Estrogen Receptor beta Monoclonal Antibody (MC10), eBioscience™



### Estrogen Receptor beta Antibody (14-9336-82) in IHC (P)

Immunohistochemistry of formalin-fixed paraffin embedded human infiltrating ductal carcinoma tissue using 30 µg/mL Mouse IgG2a K Isotype Control (left) or 30 µg/mL Anti-Human Estrogen Receptor beta Purified (right) followed by Anti-Mouse Biotin, Streptavidin-HRP, and DAB visualization. Nuclei are counterstained with hematoxylin.

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