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36-1117: Monoclonal Antibody to ER-beta1 (Estrogen Receptor beta-1)(Clone: ERb455)

Clonality: Monoclonal Clone Name: ERb455

Application : FACS,IF,WB,IHC **Reactivity :** Human, Mouse, Rat

 Gene :
 ESR2

 Gene ID :
 2100

 Uniprot ID :
 Q92731

 Format :
 Purified

Alternative Name: ESR2,ESTRB,NR3A2
Isotype: Mouse IgG2a, kappa

Immunogen Information: C-terminus fragment of recombinant human estrogen receptor beta protein

Description

Estrogen receptors (ER) are members of the steroid/thyroid hormone receptor superfamily of ligand-activated transcription factors. Estrogen receptors, including ER-alpha and ER-beta, contain DNA binding and ligand binding domains and are critically involved in regulating the normal function of reproductive tissues. They are located in the nucleus, though some estrogen receptors associate with the cell surface membrane and can be rapidly activated by exposure of cells to estrogen. ER-alpha and ER-beta are differentially activated by various ligands. Receptor-ligand interactions trigger a cascade of events, including dissociation from heat shock proteins, receptor dimerization, phosphorylation and the association of the hormone activated receptor with specific regulatory elements in target genes. Evidence suggests that ER-alpha and ER-beta may be regulated by distinct mechanisms even though they share many functional characteristics.

Product Info

Amount: 100 μg

Purification: Affinity Chromatography

Content: 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

Storage condition : Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

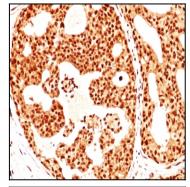
Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

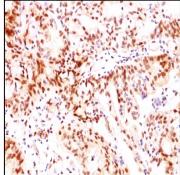


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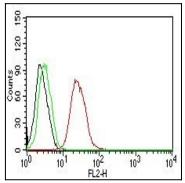
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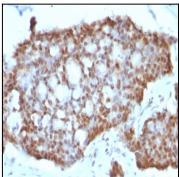
Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with ER-beta1 Monoclonal Antibody (ERb455).



Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with ER-beta1 Monoclonal Antibody (ERb455).



Flow Cytometry for human ER-beta on MCF-7 Cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled ER-beta1 Monoclonal Antibody (ERb455).

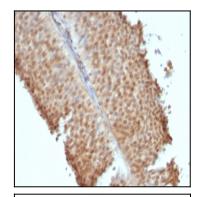


Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with ER-beta1 Monoclonal Antibody (ERb455).

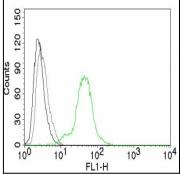


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Formalin-fixed, paraffin-embedded human Bladder Carcinoma stained with ER-beta1 Monoclonal Antibody (ERb455).



Flow Cytometry of human ER beta on BT474 Cells. Black: Cells alone; Grey: Isotype Control; Green: AF488-labeled ER beta1 Monoclonal Antibody (Erb455).