

### 36-2256: Anti-ER-beta-1 (Estrogen Receptor beta-1) Monoclonal Antibody(Clone: ERb455)-CF488

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ERb455
<b>Application :</b>	FACS,IF
<b>Reactivity :</b>	Human, Mouse, Rat
<b>Conjugate :</b>	CF488
<b>Gene :</b>	ESR2
<b>Gene ID :</b>	2100
<b>Uniprot ID :</b>	Q92731
<b>Alternative Name :</b>	Erb, ESR BETA, ESR2, ESRB, ESTRB, estrogen nuclear receptor beta variant a, estrogen nuclear receptor beta variant b, estrogen receptor 2 (ER beta), estrogen receptor beta 4
<b>Isotype :</b>	Mouse IgG2a, kappa
<b>Immunogen Information :</b>	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

<b>Amount :</b>	0.5 ml at 100µg/ml
<b>Content :</b>	Antibody Purified from Bioreactor Concentrate by Protein A/G and conjugated to various reporter molecules. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide. Contact us if you require this Ab in a different format.
<b>Storage condition :</b>	Antibody with azide - store at 4 to 8°C. Antibody is stable for 24 months. Non-hazardous.

#### Application Note

Flow Cytometry (5ul per test per one million cells or 5ul per 100ul of whole blood);Immunofluorescence (1:50-1:100);

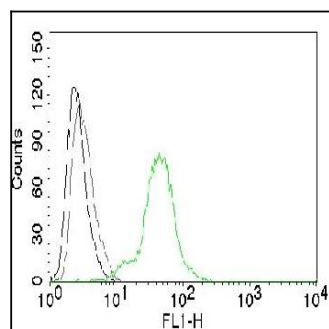


Fig. 1: Flow Cytometry of human ER beta on BT474 cells. Black: cells alone; Grey: Isotype Control; Green: CF488-labeled ER beta Monoclonal Antibody (Erb455).