ER-beta-1 (Estrogen Receptor beta-1) Antibody

Mouse Monoclonal Antibody [Clone ERb455]

Catalog No	Format	Size
2100-MSM1-CF488-100T	Purified Ab conjugated to CF488	0.5 ml at 100ug/ml

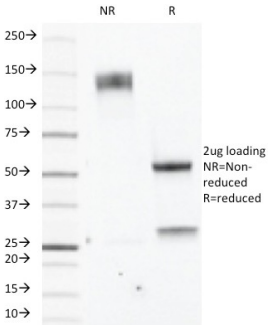
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

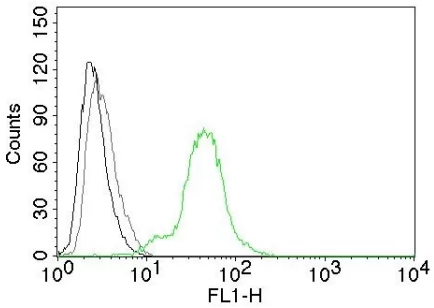
Clone	ERb455
Gene Name	ESR2
Immunogen	C-terminus fragment of recombinant human estrogen receptor beta protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	53-59kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	MCF-7 cells. Ovarian, Ovarian

**Optimal dilution for a specific application should be determined.*

Product Images for ER-beta-1 (Estrogen Receptor beta-1) Antibody



SDS-PAGE Analysis Purified Estrogen Receptor beta1 Mouse Monoclonal Antibody (ERb455). Confirmation of Integrity and Purity of Antibody.



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

Specificity & Comments

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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Breast Cancer, Cardiovascular, Infectious Disease, Nuclear Marker, Signal Transduction, Transcription Factors

Limitations and Warranty