

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

Mouse Monoclonal Antibody [Clone ERb455]

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

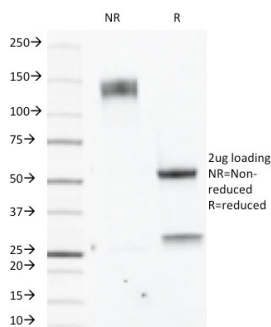
| Applications | Tested Dillution | Note |
|----------------------------|---------------------|---|
| Flow Cytometry (Flow) | 1-2ug/million cells | |
| Immunofluorescence (IF) | 1-3ug/ml | |
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue 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

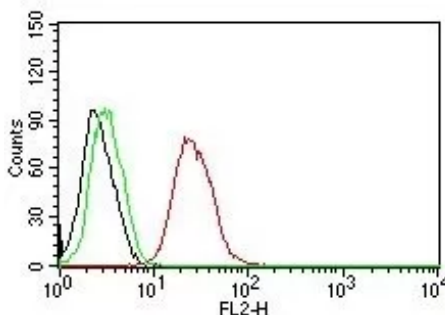
| | |
|------------------------|---|
| Clone | ERb455 |
| Gene Name | ESR2 |
| Immunogen | C-terminus fragment of recombinant human estrogen receptor beta protein |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype / Light Chain | IgG2a / Kappa |
| Mol. Weight of Antigen | 53-59kDa |
| Cellular Localization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

*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 for human ER-beta on MCF-7 cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled ER-beta1 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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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