HER-4 / ERBB4 Antibody

Mouse Monoclonal Antibody [Clone HFR-1]

Catalog No	Format	Size
2066-MSM5-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2066-MSM5-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2066-MSM5-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

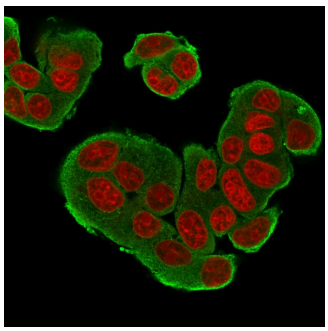
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

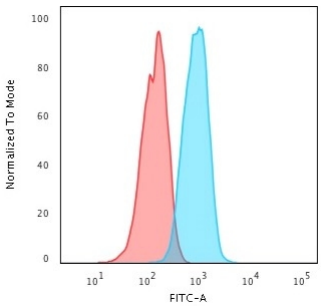
Clone	HFR-1
Gene Name	ERBB4
Immunogen	Recombinant human ERBB4 (HER4) protein fragment (around aa 1116-1269) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	180kDa (precursor); 80/120kDa (cleaved)
Cellular Localization	Cell membrane, Mitochondrion, Nucleus
Species Reactivity	Human, Mouse
Positive Control	Brain, Breast, heart or kidney. MCF-7 cells.

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

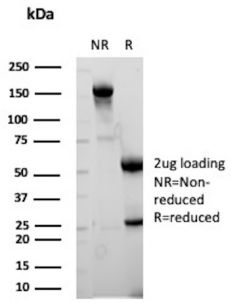
Product Images for HER-4 / ERBB4 Antibody



Immunofluorescence Analysis of MCF-7 cells labeling HER-4 with HER-4 / ERBB4 Mouse Monoclonal Antibody (HFR-1) Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).



Flow Cytometric Analysis of PFA-fixed MCF-7 cells using HER-4 / ERBB4 Mouse Monoclonal Antibody (HFR-1) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



SDS-PAGE Analysis of Purified HER-4 Mouse Monoclonal Antibody (HFR1).
Confirmation of Purity and Integrity of Antibody

Specificity & Comments

The EGF receptor family comprises several related receptor tyrosine kinases that are frequently overexpressed in a variety of carcinomas. Members of this receptor family include EGFR (HER1), Neu (ErbB-2, HER2), ErbB-3 (HER3) and ErbB-4 (HER4), which form either homodimers or heterodimers upon ligand binding. The gene encoding ErbB-4 is expressed as a full-length protein, which produces a short membrane-anchored cytoplasmic domain fragment and a long ectodomain fragment. The short fragment is heavily tyrosine phosphorylated and possesses tyrosine kinase catalytic activity toward an exogenous substrate. Proteolytic cleavage of ErbB-4 is promoted by the binding of heregulin. ErbB-4 is involved in cell proliferation and differentiation and its expression is highest in breast carcinoma cell lines, normal skeletal muscle, heart, pituitary, brain and cerebellum. Its expression in breast cancer, pediatric brain cancer and other types of carcinomas has been reported in studies which suggest ErbB4 expression is involved in both normal tissue development and carcinogenesis.

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

AKT Signaling, Cardiovascular, Infectious Disease, Signal Transduction

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.