

## Anti-HER4 Antibody [HFR-1] (A248461)

### Specifications:

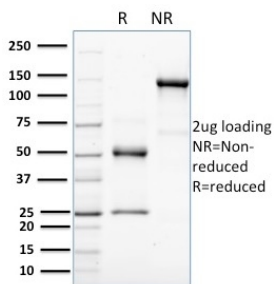
Name:	Anti-HER4 Antibody [HFR-1]
Description:	Mouse monoclonal [HFR-1] antibody to HER4.
Specificity:	The EGF receptor family comprises several related receptor tyrosine kinases that are frequently overexpressed in a variety of carcinomas. Members of this receptor family include EGFR (HER1), Neu (ErbB-2, 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.
Applications:	Flow Cytometry, IF
Recommended Dilutions:	Flow Cytometry: 1-2 µg/million cells, IF: 1-2 µg/ml
Reactivity:	Human, Mouse
Cross Reactivity:	This antibody is predicted to cross react with Rat and Chicken.
Immunogen:	Recombinant fragment, around amino acids 1116-1269, of human ERBB4 protein. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	HFR-1
Isotype:	IgG2b
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.

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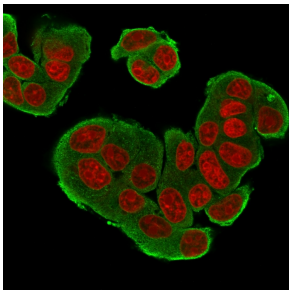
### Specifications continued:

Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-HER4 Antibody [HFR-1] - BSA and Azide free (A251643).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

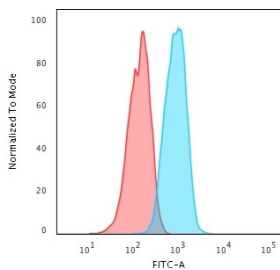
### Images:



SDS-PAGE analysis of Anti-HER4 Antibody [HFR-1] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.



Immunofluorescent analysis of MCF-7 cells stained with Anti-HER4 Antibody [HFR-1] followed by Goat Anti-Mouse IgG (CF® 488) (Green). The nuclear counterstain is RedDot (Red).



Flow cytometric analysis of PFA fixed MCF-7 cells using Anti-HER4 Antibody [HFR-1] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Isotype Control (Red).