

36-2238: Anti-HER-4 / ERBB4 Monoclonal Antibody(Clone: HFR-1)

Clonality :	Monoclonal
Clone Name :	HFR-1
Application :	FACS,IF
Reactivity :	Human, Mouse
Gene :	ERBB4
Gene ID :	2066
Uniprot ID :	Q15303
Alternative Name :	Avian erythroblastic leukemia viral oncogene homolog 4; ERBB4; HER4; human epidermal growth factor receptor 4; p180erbB4; Proto-oncogene-like protein c-ErbB-4
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant human ERBB4 (HER4) protein fragment (around aa 1116-1269) (exact sequence is proprietary)

Description

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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 condition :	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.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml);

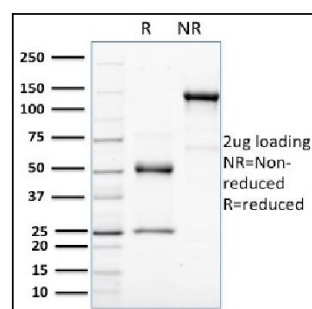


Fig. 1: SDS-PAGE Analysis Purified HER-4 / ERBB4 Mouse Monoclonal Antibody (HFR-1). Confirmation of Purity and Integrity of Antibody.

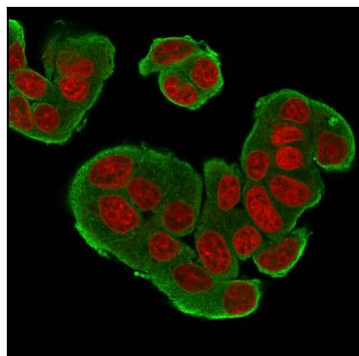


Fig. 2: Immunofluorescence Analysis of MCF-7 cells labeling HER-4 with HER-4 / ERBB4 Mouse Monoclonal Antibody (HFR-1) Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).

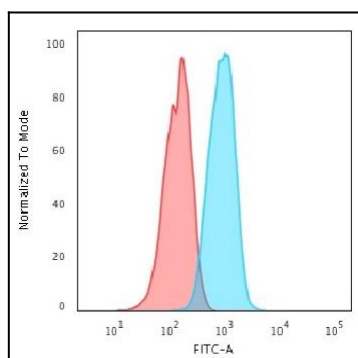


Fig. 3: Flow Cytometric Analysis of PFA-fixed MCF-7 cells using HER-4 / ERBB4 Mouse Monoclonal Antibody (HFR-1) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).