

Datasheet for ABIN6939332
anti-ERBB4 antibody (AA 1116-1269)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	ERBB4
Binding Specificity:	AA 1116-1269
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ERBB4 antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant human ERBB4 (HER4) protein fragment (around aa 1116-1269) (exact sequence is proprietary)
Clone:	HFR-1
Isotype:	IgG2b kappa
Cross-Reactivity (Details):	Predicted to work with Rat, Chicken.
Purification:	Purified by Protein A/G

Target Details

Target:	ERBB4
Alternative Name:	ERBB4 (ERBB4 Products)

Target Details

Background:	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.
Molecular Weight:	180kDa (precursor), 80/120kDa (cleaved)
Gene ID:	2066
UniProt:	Q15303
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Application Notes:	Positive Control: Breast, brain, heart or kidney. MCF-7 cells. Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

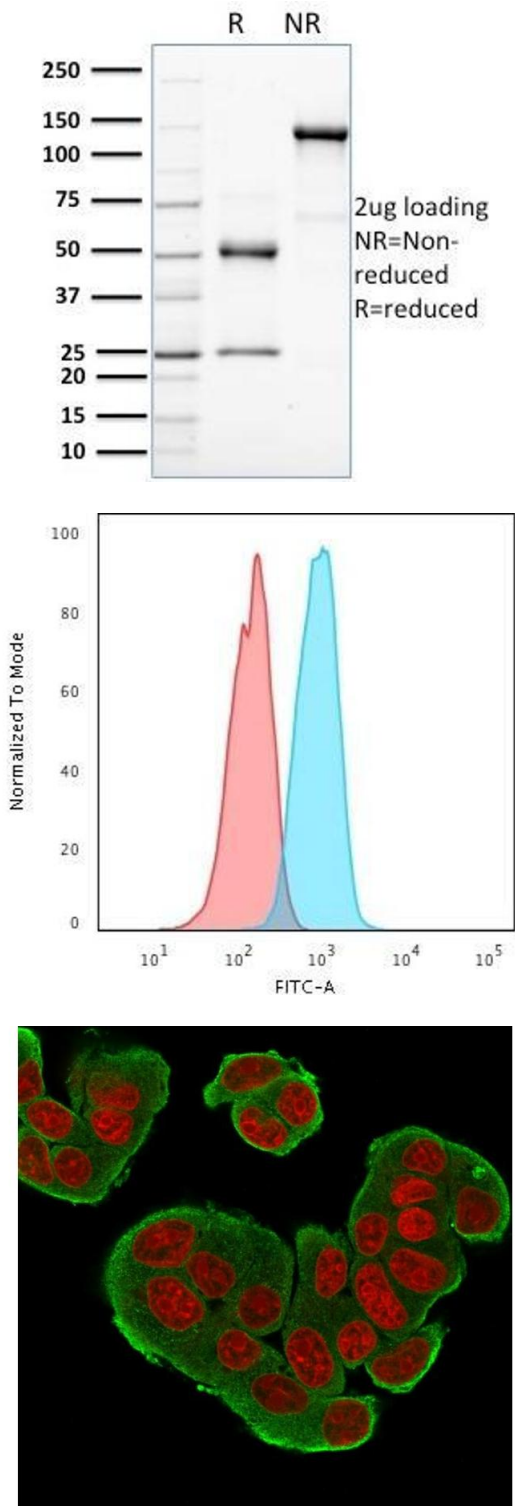
Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

Storage Comment: 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.

Expiry Date: 24 months

Images



SDS-PAGE

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

Flow Cytometry

Image 2. 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).

Immunofluorescence

Image 3. 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).