Data Sheet (Cat.No.TMAC-01813)

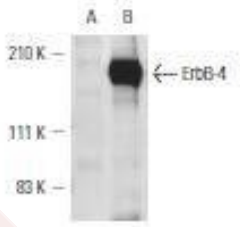
Anti-HER4/ERBB4 Antibody (8W756)

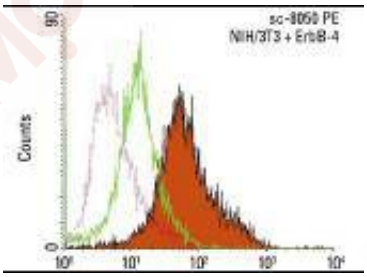
Product Details

Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 180 kDa.
Clone:	8W756
Purification:	ProA affinity purified

Applications

Verified Activity:	1. Western blot analysis of ErbB-4 expression in control (A) and ErbB-4 transfected (B) NIH/3T3 whole cell lysates. 2. Intracellular FCM analysis of fixed and permeabilized control (green line histogram) and ErbB-4 transfected (solid orange histogram) NIH/3T3 cells. Dotted pink histogram represents the isotype control, normal mouse IgG2a.





Application:	FCM,IF,IHC-P,IP,WB
Recommended	WB: 1:100-1000; IHC-P: 1:50-500; IP: 1-2 μg per 100-500 μg of total protein(1 ml of cell lysate); FCM: 1 μg per 1 x 106 cells

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Amino acids 1280-1308 at C-terminus of ErbB-4 of human origin
Antigen Species:	Human
Uniprot ID:	Q15303
Synonyms:	Tyrosine kinase-type cell surface receptor HER4;Receptor tyrosine-protein kinase erbB-4; p180erbB4;Proto-oncogene-like protein c-ErbB-4

Research 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481