**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. Full length ErbB-3 is overexpressed in human mammary tumors. The ErbB-3 gene also produces several alternative variants, including a secreted form which negatively regulates heregulin stimulated ErbB activation. ErbB-3 heterodimerizes with Neu and binds heregulin in order to activate phosphoinositide (PI) 3-kinase. The recruitment and activation of PI 3-kinase occurs via its interaction with phosphorylated YXXM motifs in the carboxy terminus of ErbB-3.

**CHROMOSOMAL LOCATION**

Genetic locus: ERBB3 (human) mapping to 12q13.2; Erbb3 (mouse) mapping to 10 D3.

**SOURCE**

ErbB-3 (C-17) is available as either rabbit (sc-285) or goat (sc-285-G) affinity purified polyclonal antibody raised against a peptide mapping at the C-terminus of ErbB-3 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-285 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as phycoerythrin conjugate for flow cytometry, sc-285 PE, 100 tests; as agarose conjugate for immunoprecipitation, sc-285 AC, 500 µg/0.25 ml agarose in 1 ml; and as HRP conjugate for Western blotting, sc-285 HRP, 200 µg/ml.

**APPLICATIONS**

ErbB-3 (C-17) is recommended for detection of ErbB-3 p160 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation, sc-285 AC, 500 µg/0.25 ml agarose in 1 ml; and as HRP conjugate for Western blotting, sc-285 HRP, 200 µg/ml.

**APPLICATIONS**

ErbB-3 (C-17) is recommended for detection of ErbB-3 p160 in additional species, including equine, canine, bovine and porcine. Suitable for use as control antibody for ErbB-3 siRNA (h): sc-3527, ErbB-3 siRNA (m): sc-35232, ErbB-3 shRNA Plasmid (h): sc-35232-SH-ErbB-3, ErbB-3 shRNA Plasmid (m): sc-35232-SH-ErbB-3, Lentiviral Particles: sc-35232-V and ErbB-3 shRNA (m) Lentiviral Particles: sc-35232-V.

**MOLECULAR WEIGHT**

Molecular Weight of ErbB-3: 180 kDa.

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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