

AP09510PU-S**Polyclonal Antibody to ERBB3 / HER3 - Aff - Purified****Alternate names:**

ERBB-3, HER-3, Proto-oncogene-like protein c-ErbB-3, Receptor tyrosine-protein kinase erbB-3, Tyrosine kinase-type cell surface receptor HER3, c-erbB-3

Quantity:

50 µg

Concentration:

1,0 mg/ml

Background:

The ErbB3 gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. ErbB3 is a membrane-bound protein which has a neuregulin binding domain but not an active kinase domain. It can therefore bind this ligand but cannot convey a signal into the cell via protein phosphorylation. However it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers including prostate, bladder and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported but they have not been thoroughly characterized.

Uniprot ID:

[P21860](#)

NCBI:

[NP_001005915](#)

GenID:

[2065](#)

Host:

Rabbit

Immunogen:

Synthesized non-phosphopeptide derived from human Her3/ErbB3 around the phosphorylation site of Tyr1289 (Q-G-YPE-E)

Format:

State: Liquid purified Ig

Purification: Affinity chromatography

Buffer System: Phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol

Applications:

Immunofluorescence: 1/100 - 1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Her3/ErbB3 Antibody detects endogenous levels of total Her3/ErbB3 protein.

Species: Human.

Other species not tested.

Storage:

Store the antibody at -20°C.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Yarden, Y. and Sliwkowski, M.X. (2001) Nature Rev. Mol. Cell. Biol. 2, 127-137.
2. Guy, P.M. et al. (1994) Proc. Natl. Acad. Sci. USA 91, 8132-8136.
3. Songyang, Z. et al. (1993) Cell 72, 767-778.

4. Kim, H.H. et al. (1994) J. Biol. Chem. 269, 24747-24755.

Pictures:

Immunofluorescence staining of methanol-fixed MCF cells using Her3/ErbB3 Antibody

