

**ERBB3 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP7630a****Specification**

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**ERBB3 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [P21860](#)**ERBB3 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 2065**Other Names**

Receptor tyrosine-protein kinase erbB-3, Proto-oncogene-like protein c-ErbB-3, Tyrosine kinase-type cell surface receptor HER3, ERBB3, HER3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7630a](/product/products/AP7630a) was selected from the N-term region of human ErbB3 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ERBB3 Antibody (N-term) Blocking peptide - Protein Information****Name** ERBB3**Synonyms** HER3**Function**

Tyrosine-protein kinase that plays an essential role as cell surface receptor for neuregulins. Binds to neuregulin-1 (NRG1) and is activated by it; ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase (PubMed: [20682778](http://www.uniprot.org/citations/20682778)). May also be activated by CSPG5 (PubMed: [15358134](http://www.uniprot.org/citations/15358134)). Involved in the regulation of myeloid cell differentiation (PubMed: [27416908](http://www.uniprot.org/citations/27416908)).

**Cellular Location**

[Isoform 1]: Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Epithelial tissues and brain.

**ERBB3 Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**ERBB3 Antibody (N-term) Blocking peptide - Images****ERBB3 Antibody (N-term) Blocking peptide - Background**

ErbB3, a member of the EGF receptor family, binds and is activated by neuregulins and NTAK. It potentially forms a heterodimer with each of the other ERBB receptors. This protein is predominantly expressed in epithelial tissues and brain. The cytoplasmic part of the receptor may interact with the SH2 or SH3 domains of many signal-transducing proteins. Ligand-binding may increase phosphorylation on tyrosine residues and promote its association with the p85 subunit of phosphatidylinositol 3-kinase. ErbB3 is overexpressed in a subset of human mammary tumors.

**ERBB3 Antibody (N-term) Blocking peptide - References**

Katoh, M., et al., Biochem. Biophys. Res. Commun. 192(3):1189-1197 (1993). Plowman, G.D., et al., Proc. Natl. Acad. Sci. U.S.A. 87(13):4905-4909 (1990). Kraus, M.H., et al., Proc. Natl. Acad. Sci. U.S.A. 86(23):9193-9197 (1989).