

Anti-ERBB3/Her3 Antibody

Catalog # ABO11187

Product Information

Application	WB
Primary Accession	P21860
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Receptor tyrosine-protein kinase erbB-3(ERBB3) detection. Tested with WB in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2065
Other Names	Receptor tyrosine-protein kinase erbB-3, 2.7.10.1, Proto-oncogene-like protein c-ErbB-3, Tyrosine kinase-type cell surface receptor HER3, ERBB3, HER3
Calculated MW	148098
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Isoform 1: Cell membrane; Single-pass type I membrane protein.
Tissue Specificity	Epithelial tissues and brain.
Source	Eukaryota
Protein Name	Receptor tyrosine-protein kinase erbB-3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ErbB 3(162-181aa DWRDIVRDRDAEIVVKDNGR).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily.

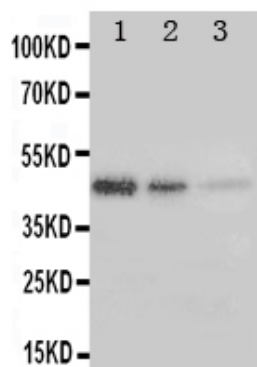
Protein Information

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). May also be activated by CSPG5 (PubMed: 15358134). Involved in the regulation of myeloid cell differentiation (PubMed: 27416908).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein
Tissue Location	Epithelial tissues and brain.

Background

ERBB3(V-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3) also known as ONCOGENE ERBB3 or HER3, is an enzyme that in humans is encoded by the ERBB3 gene. This gene encodes a member of the epidermal growth factor receptor(EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. By in situ hybridization, Kraus et al.(1989) mapped the ERBB3 gene to chromosome 12q13. Carraway et al.(1994) demonstrated that ERBB3 is a receptor for heregulin and is capable of mediating HGL-stimulated tyrosine phosphorylation of itself. Most notably, EGFR and ErbB2 became markedly more promiscuous as the threshold was lowered, whereas ErbB3 did not. Engelman et al.(2007) found that amplification of MET caused gefitinib resistance by driving ERBB3-dependent activation of phosphoinositide 3-kinase, a pathway though to be specific to EGFR/ERBB family receptors.

Images



Anti-ErbB 3 antibody, ABO11187, Western blotting
Recombinant Protein Detection Source: E.coli derived -recombinant Human ERBB3, 45.0KD(162aa tag+ M1-A245)
Lane 1: Recombinant Human ERBB3 Protein 5ng
Lane 2: Recombinant Human ERBB3 Protein 2.5ng
Lane 3: Recombinant Human ERBB3 Protein 1.25ng

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.