

Anti-HER3 ERBB3 Antibody

Catalog Number: A00539

About ERBB3

HER3 antibody is ideal for western blotting, ELISA and IP. The human Epidermal Growth Factor Receptor (EGFR) family is a family of receptor tyrosine kinases consisting of 4 members: EGFR, HER2, HER3 and HER4. These receptors are expressed on a wide variety of tissue types and have been implicated in many human cancers, including breast, gastric, colon and prostate. Strong expression of both HER3 and HER2 (also known as p185neu) by tumor cells can be associated with poor outcome for patients. The ligand for HER3 and HER4 is called Neu Differentiation Factor (NDF) or Heregulin. In some instances, antibodies against these receptors prove effective in combination therapy regimens for treatment of the disease. Signaling through the EGFR family involves the combinatorial dimerization of the four known family members and is mediated by at least 8 different hormones, including EGF and the heregulins. Heregulin binding and tyrosine phosphorylation by HER3 or HER4 is enhanced in the presence of HER2. Structurally the members of the EGFR family are 1210 to 1342 amino acids in length with approximately 650 amino acids of the extracellular domain being heavily glycosylated. The extracellular domains show up to 70% sequence homology.

Overview

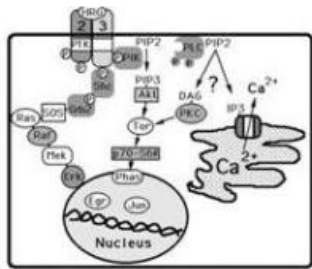
Product Name	Anti-HER3 ERBB3 Antibody
Reactive Species	Human
Description	Boster Bio Anti-HER3 ERBB3 Antibody (Catalog # A00539). Tested in ELISA, IP, WB applications. This antibody reacts with Human.
Conjugate	Fluorescein
Application	ELISA, IP, WB
Clonality	Polyclonal Clone: 23A7.C9
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store Anti-HER3 at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P21860

Technical Details

Immunogen	Anti-HER3 whole rabbit serum was prepared by repeated immunizations with a HER3 fusion protein corresponding to amino acids 1283 to 1323 (40 amino acids) at the carboxy-terminus of human HER3.
Predicted Reactive Species	Mouse, Rat

Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	2.5 mg/mL by UV absorbance at 280 nm
Purification	Rabbit Anti-HER3 is an IgG fraction antibody purified from monospecific antiserum by Protein A chromatography followed by cross adsorption against GST and extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. The antibody is directed against human HER3 and is useful in determining its presence in immunoprecipitation experiments. This antibody can detect HER3 from human, mouse and rat sources. Reactivity of this antibody with HER3 from other species is unknown.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA: 1:10,000 - 1:50,000</p> <p>IP: Use 5 µL antibody.</p> <p>WB: 1:500- 1:2,000</p>

Anti-HER3 ERBB3 Antibody (A00539) Images



Signaling pathways activated by the ErbB3/HER3 Receptor.

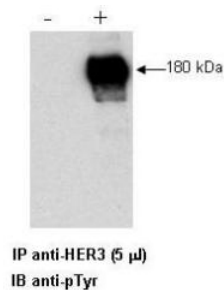


Figure 1. Western blot analysis of ERBB3 using anti-ERBB3 antibody (A00539). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ERBB3 antigen affinity purified polyclonal antibody (Catalog # A00539) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for ERBB3.

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