

Anti-erbB-2 Antibody

Catalog Number: A00010

About ERBB2

The ErbB family consists of four closely related tyrosine kinase receptors that act as potent mediators of normal cell growth and development. Aberrant expression or function of one or more of these receptors can play a major role in the development and evolution of cancer. ErbB-2, also known as HER2, has been implicated in the evolution of both breast and gastric cancers, and is evident in other cancer types such as ovarian and salivary gland tumors. ErbB-2 possesses an active tyrosine kinase domain, but no direct ligand has been identified yet. ErbB-2 is the preferred binding partner to the other members of the ErbB family and is thought to act primarily through the Ras-MAPK, PI3k-PKB/Akt, and PLC-PKC signaling pathways. Numerous anti-cancer strategies have been employed against erbB-2, such as antibody-based therapies to prevent ligand binding or receptor activation through dimerization, antibody-dependent cell mediated cytotoxicity, in addition to direct kinase inhibition to prevent molecular activation/downstream signaling.

Overview

Product Name	Anti-erbB-2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-erbB-2 Antibody (Catalog # A00010). Tested in ELISA, WB, IHC-P, IF, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IP, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	erbB-2 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	erbB-2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Chicken
Uniprot ID	P04626

Technical Details

Immunogen	erbB-2 antibody was raised against a 19 amino acid synthetic peptide near the carboxy terminus of human erbB-2. The immunogen is located within the last 50 amino acids of erbB-2.
Isotype	IgY
Form	Liquid
Concentration	1 mg/mL
Purification	erbB-2 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

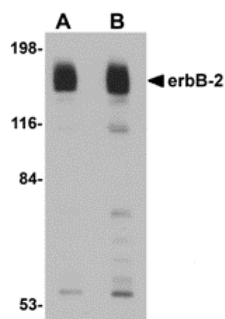
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

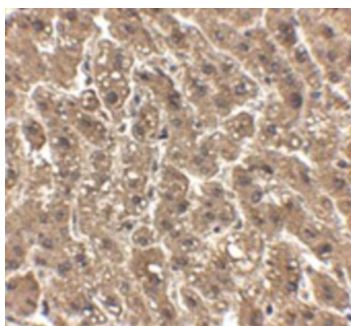
erbB-2 antibody can be used for detection of erbB-2 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in rat samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

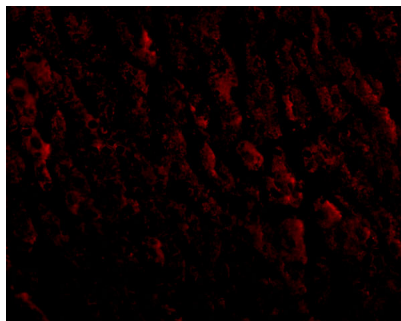
Anti-erbB-2 Antibody (A00010) Images



Western blot analysis of erbB-2 in rat liver tissue lysate with erbB-2 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of erbB-2 in human liver tissue with erbB-2 antibody at 2.5 ug/mL.



Immunofluorescence of ERBB2 in human liver tissue with ERBB2 antibody at 20 ug/mL.

2 Publications Citing This Product

1. PubMed ID: 21392403, Tao L, Suhua C, Juanjuan C, Zongzhi Y, Juan X, Dandan Z. Virol J. 2011 Mar 11;8:114. Doi: 10.1186/1743-422X-8-114. In Vitro Study On Human Cytomegalovirus Affecting Early Pregnancy Villous Evt'S Invasion Function.
2. PubMed ID: 24902791, Lapatinib-incorporated lipoprotein-like nanoparticles: preparation and a proposed breast cancer-targeting mechanism

Visit bosterbio.com/anti-erbb-2-antibody-a00010-boster.html to see all 2 publications.

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