

Datasheet for 200-901-BB7**erbB-2 Antibody****Overview**

Description:	Anti-ErbB-2 (CHICKEN) Antibody - 200-901-BB7
Item No.:	200-901-BB7
Size:	100 µg
Applications:	ELISA, IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Chicken

Product Details

Background:	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.
Synonyms:	erbB-2 Antibody, NEU, NGL, HER2, TKR1, CD340, HER-2, MLN 19, HER-2/neu, MLN19, NEU, Receptor tyrosine-protein kinase erbB-2, Metastatic lymph node gene 19 protein
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	ERBB2
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-erbB-2 antibody was prepared from chicken egg fractions produced by repeated immunizations with a 19 amino acid synthetic peptide near the C-terminus of human erbB-2.
Purity/Specificity:	Anti-erbB-2 Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with erbB-2 from other sources has not been determined.
Relevant Links:	• UniProtKB - P04626 • GeneID - 2064 • NCBI - NP_004439

Application Details

Tested Applications:	ELISA, IF, IHC, IP, WB
Application Note:	Anti-erbB-2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry, Immunofluorescence, and Immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 138 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
IP:	User Optimized
WB:	1-2 µg/mL

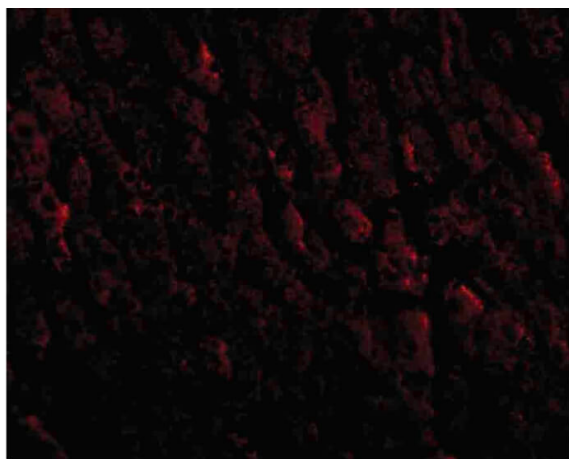
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

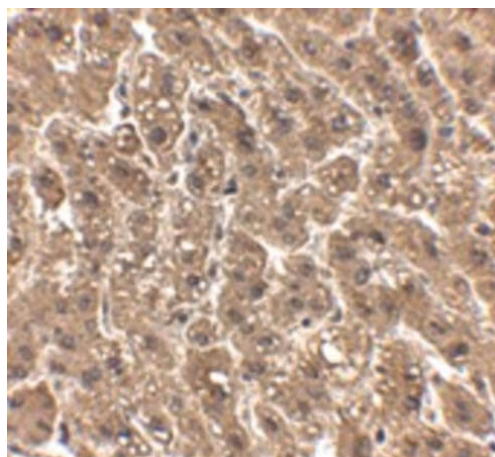
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



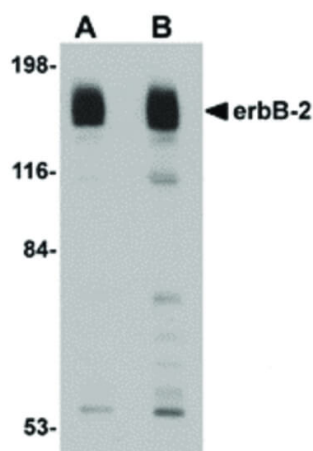
Immunofluorescence Microscopy

Immunofluorescence Microscopy of ERBB2 antibody.
 Tissue: human liver tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ERBB2 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: ERBB2 is nuclear and cytoplasmic. Staining: ERBB2 as red fluorescent signal.



Immunohistochemistry

Immunohistochemistry of erbB-2 antibody. Tissue: Human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: erbB-2 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: erbB-2 is nuclear and cytoplasmic. Staining: erbB-2 as precipitated brown signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of erbB-2 antibody. Lane 1: Rat liver tissue lysate with erbB-2 antibody at 1 $\mu\text{g}/\text{mL}$. Lane 2: Rat liver tissue lysate with erbB-2 antibody at 2 $\mu\text{g}/\text{mL}$. Load: 35 μg per lane. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 138 kDa, 160 kDa for erbB-2. Other band(s): erbB-2 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.