

Datasheet for ABIN6939331  
**anti-ERBB4 antibody (AA 1116-1269)**



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4 Images

## Overview

Quantity:	100 µg
Target:	ERBB4
Binding Specificity:	AA 1116-1269
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ERBB4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant fragment (around aa 1116-1269) of human ERBB4 (HER4) protein (exact sequence is proprietary)
Clone:	ERBB4-2581
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

## Target Details

Target:	ERBB4
Alternative Name:	ERBB4 ( <a href="#">ERBB4 Products</a> )
Background:	The EGF receptor family comprises several related receptor tyrosine kinases that are frequently

## Target Details

overexpressed in a variety of carcinomas. Members of this receptor family include EGFR (HER1), Neu (ErbB-2, HER2), ErbB-3 (HER3) and ErbB-4 (HER4), which form either homodimers or heterodimers upon ligand binding. The gene encoding ErbB-4 is expressed as a full-length protein, which produces a short membrane-anchored cytoplasmic domain fragment and a long ectodomain fragment. The short fragment is heavily tyrosine phosphorylated and possesses tyrosine kinase catalytic activity toward an exogenous substrate. Proteolytic cleavage of ErbB-4 is promoted by the binding of heregulin. ErbB-4 is involved in cell proliferation and differentiation and its expression is highest in breast carcinoma cell lines, normal skeletal muscle, heart, pituitary, brain and cerebellum. Its expression in breast cancer, pediatric brain cancer and other types of carcinomas has been reported in studies which suggest ErbB4 expression is involved in both normal tissue development and carcinogenesis.

Molecular Weight:	180kDa (precursor), 80/120kDa (cleaved)
Gene ID:	2066
UniProt:	<a href="#">Q15303</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a>

## Application Details

Application Notes:	Positive Control: Human breast, brain or kidney tissues (IHC). Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

## Handling

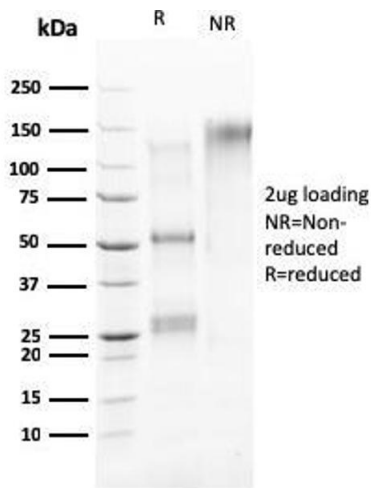
Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

Images

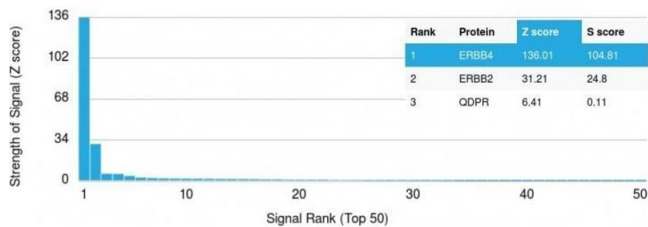


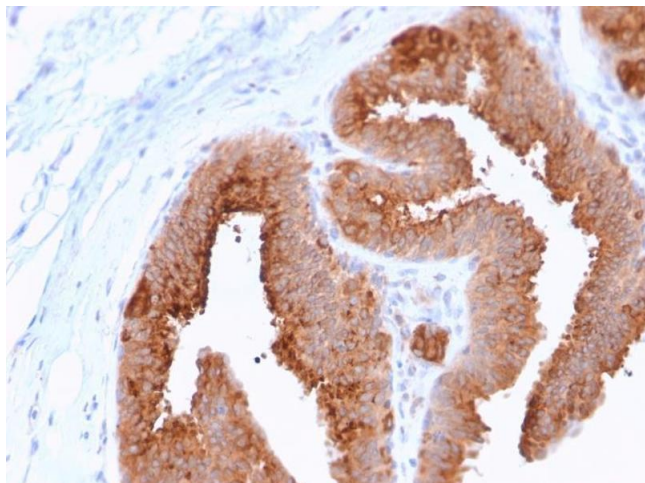
SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified HER-4 / ERBB4 Mouse Monoclonal Antibody (ERBB4/2581). Confirmation of Purity and Integrity of Antibody.

Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using HER-4 Mouse Monoclonal Antibody (ERBB4/2581). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.





#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with HER-4 / ERBB4 Mouse Monoclonal Antibody (ERBB4/2581).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6939331.