

Datasheet for ABIN967437
anti-ERBB3 antibody



[Go to Product page](#)

4 Images

4 Publications

Overview

Quantity:	0.1 mg
Target:	ERBB3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ERBB3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human c-erbB-3 Peptide
Clone:	RTJ-1
Isotype:	IgM
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	ERBB3
Alternative Name:	c-erbB-3 (ERBB3 Products)
Background:	<p>C-erbB-3, a glycoprotein of 160 kD, is a member of the type 1 growth factor receptor subfamily which also includes c-erbB-2 (HER2/neu), c-erbB-4 and the epidermal growth factor receptor (EGFR, c-erbB-1). Members of this receptor subfamily mediate the proliferation and differentiation of normal cells. They have a common structure consisting of an extracellular domain, a transmembrane region, and a cytoplasmic sequence. The extracellular regions contain two cysteine-rich domains, and the intracellular regions have sequence homology to known tyrosine kinases. C-erbB-3 is expressed in tissues from the digestive, urinary and respiratory tracts, the circulatory system, and female and male reproductive organs. c-erb B-3 is undetectable in hematopoietic tissue and cell lines derived from hematopoietic tumors. Cellular localization has been described as cytoplasmic and/or membrane, and nuclear. The level and pattern of c-erbB-3 expression varies widely in both normal and tumor tissues.</p> <p>Clone RTJ.1 recognizes an epitope in the cytoplasmic domain of the human c-erbB-3 protein. It does not react with the EGF receptor or c-erbB-2. A synthetic peptide (referred to as 49.3) from the cytoplasmic domain of human c-erbB-3 protein was used as immunogen. RTJ.1 identifies a 160 kD band corresponding to c-erbB-3 by western blot analysis and immunoprecipitation. RTJ.1 may also react with two additional, unidentified higher molecular weight bands by immunoprecipitation and western blot analysis. These bands are likely to be non-specific, as they were not detected with a polyclonal antibody raised against the same immunogen. Because two additional bands were observed, the specificity of RTJ.1 for immunohistochemistry was analyzed by comparing staining results to those obtained using three polyclonal antibodies also raised against 49.3. Identical staining results were obtained using RTJ.1 and all three polyclonal antibodies. These results validated the use of RTJ.1 for immunohistochemical analysis of c-erbB-3.</p>
Molecular Weight:	160 kDa
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤ 0.09 % sodium 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
Storage Comment:	Store undiluted at 4°C.

Publications

Product cited in:

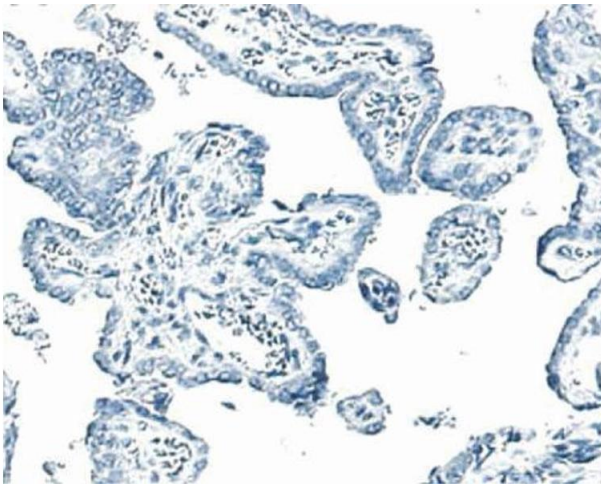
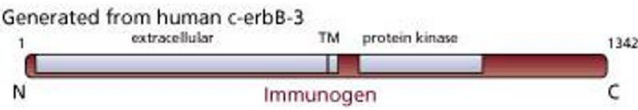
Carraway, Cantley: "A new acquaintance for erbB3 and erbB4: a role for receptor heterodimerization in growth signaling." in: **Cell**, Vol. 78, Issue 1, pp. 5-8, (1994) ([PubMed](#)).

Rajkumar, Gooden, Lemoine, Gullick, Goden: "Expression of the c-erbB-3 protein in gastrointestinal tract tumours determined by monoclonal antibody RTJ1." in: **The Journal of pathology**, Vol. 170, Issue 3, pp. 271-8, (1994) ([PubMed](#)).

Sanidas, Filipe, Linehan, Lemoine, Gullick, Rajkumar, Levison: "Expression of the c-erbB-3 gene product in gastric cancer." in: **International journal of cancer. Journal international du cancer**, Vol. 54, Issue 6, pp. 935-40, (1993) ([PubMed](#)).

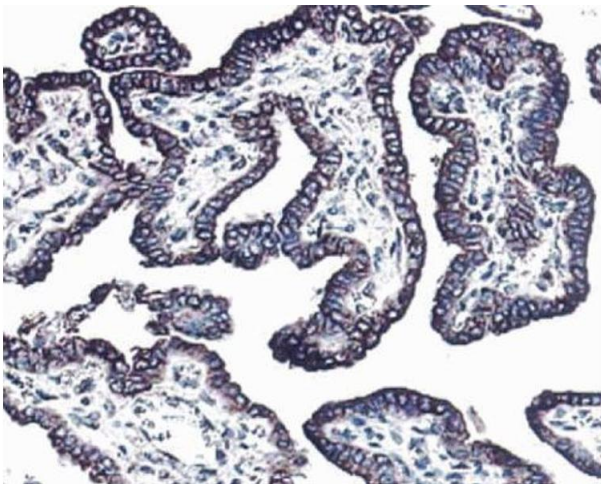
Prigent, Lemoine, Hughes, Plowman, Selden, Gullick: "Expression of the c-erbB-3 protein in normal human adult and fetal tissues." in: **Oncogene**, Vol. 7, Issue 7, pp. 1273-8, (1992) ([PubMed](#)).

Image 1.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed, paraffin-embedded tissue section of mouse thyroid stained with a mouse IgM isotype control.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed, paraffin-embedded tissue section of mouse thyroid stained with anti-c-erbB-3, clone RTJ.1.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967437.