

## Product datasheet for **TA590106**

### ErbB 3 (ERBB3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB 1:20000, IHC 1:150, ELISA 1:100-1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	DNA immunization. In vivo generated recombinant protein fragment
Formulation:	20 mM Potassium Phosphate, 150 mM Sodium Chloride, pH 7.0
Concentration:	1.02mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	erb-b2 receptor tyrosine kinase 3
Database Link:	<a href="#">NP_001973</a> <a href="#">Entrez Gene 2065 Human</a> <a href="#">P21860</a>



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**Background:**

The ErbB3 gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. ErbB3 is a membrane-bound protein which has a neuregulin binding domain but not an active kinase domain. It can therefore bind this ligand but cannot convey a signal into the cell via protein phosphorylation. However it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers including prostate, bladder and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported but they have not been thoroughly characterized.

**Synonyms:**

c-erbB-3; c-erbB3; ErbB-3; erbB3-S; HER3; LCCS2; MDA-BF-1; p45-sErbB3; p85-sErbB3; p180-ErbB3

**Note:**

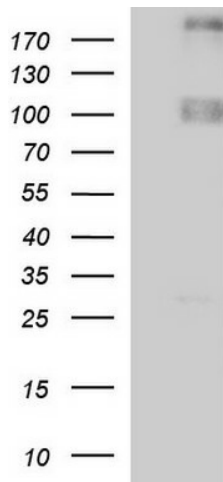
This antibody was generated by SDIX's Genomic Antibody Technology® (GAT). [Learn about GAT](#)

**Protein Families:**

Adult stem cells, Druggable Genome, Protein Kinase, Secreted Protein, Stem cell - Pluripotency, Transmembrane

**Protein Pathways:**

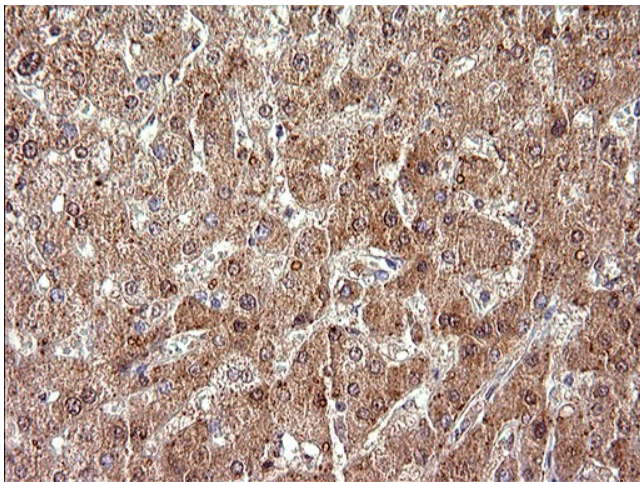
Calcium signaling pathway, Endocytosis, ErbB signaling pathway

**Product images:**


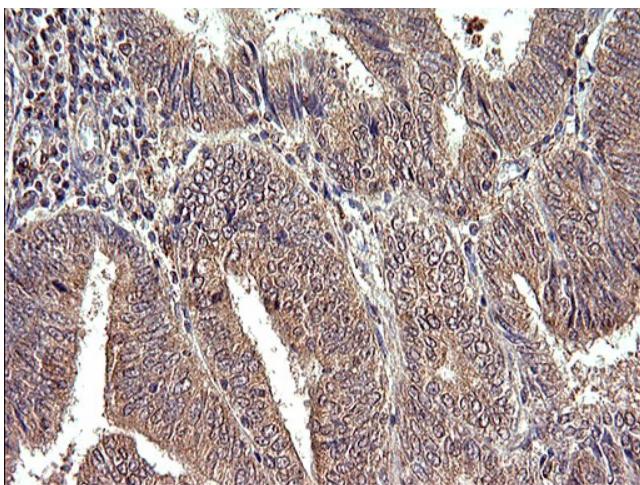
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ERBB3 ([RC209954], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ERBB3. Positive lysates [LY400725] (100ug) and [LC400725] (20ug) can be purchased separately from OriGene.



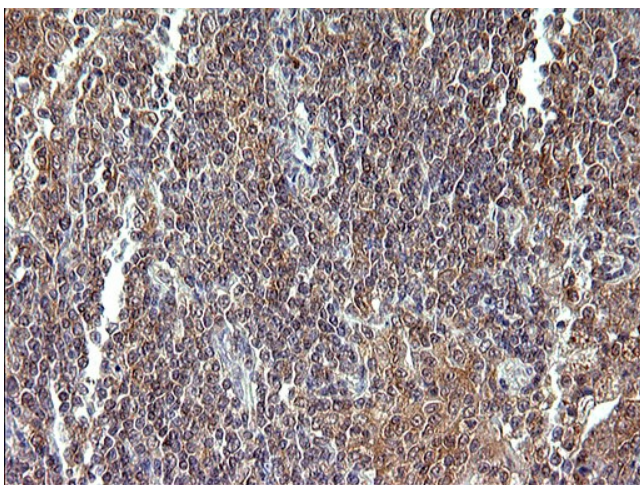
Western Blot: ErbB 3 Antibody - Western Blot was performed using affinity purified SEQer ERBB3 antibody, aa (146-245) antibody. The lanes contain 5-30ug of a whole cell extract. Final concentration of antibodies = 0.1ug/ml (1:10,000 dilution). The blot was probed overnight with the SEQer ERBB3 antibody, aa (146-245) antibody. Blot was then washed according to protocol and probed with goat-anti-Rabbit-HRP conjugate at 1:5000 dilution, washed and developed using chemiluminescence (film exposure 5-30sec). The protein was detected as represented by the band shown. The detected protein band is estimated at 110 KDa, and the predicted molecular weight of ERBB3 is 140 KDa. The difference of molecular weight between empirical and predicted results are unclear. It could cause by post-translational modification, isotype, proteolytic degradation, gel artifacts or the other reasons.



Immunohistochemical staining of paraffin-embedded Human liver tissue using anti-ERBB3 Rabbit Polyclonal antibody. (TA590106)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ERBB3 Rabbit Polyclonal antibody. (TA590106)



Immunohistochemical staining of paraffin-embedded Human Lymphoma tissue using anti-ERBB3 Rabbit Polyclonal antibody. (TA590106)