

## Product datasheet for **TA323488**

### ErbB 3 (ERBB3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:500-1000, IHC: 1:50-100, IF: 1:100-200
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of tyrosine 1328 (P-D-Y(p)-W-H) derived from Human Her3/ErbB3.
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	148 kDa
Gene Name:	erb-b2 receptor tyrosine kinase 3
Database Link:	<a href="#">NP_001973</a> <a href="#">Entrez Gene 13867 Mouse</a> <a href="#">Entrez Gene 29496 Rat</a> <a href="#">Entrez Gene 2065 Human</a> <a href="#">P21860</a>



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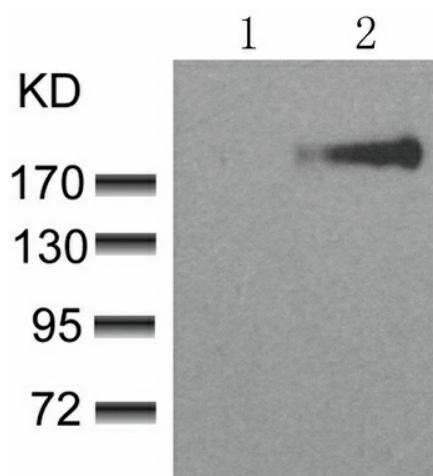
**Background:** This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through 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

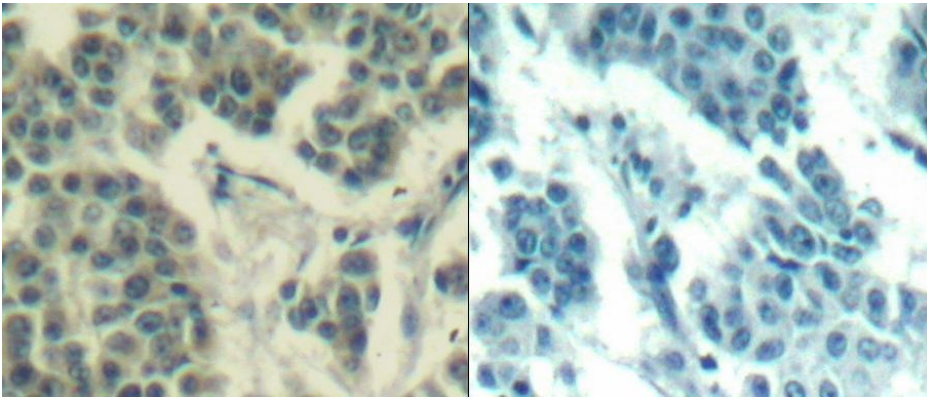
**Protein Families:** Adult stem cells, Druggable Genome, Protein Kinase, Secreted Protein, Stem cell - Pluripotency, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Endocytosis, ErbB signaling pathway

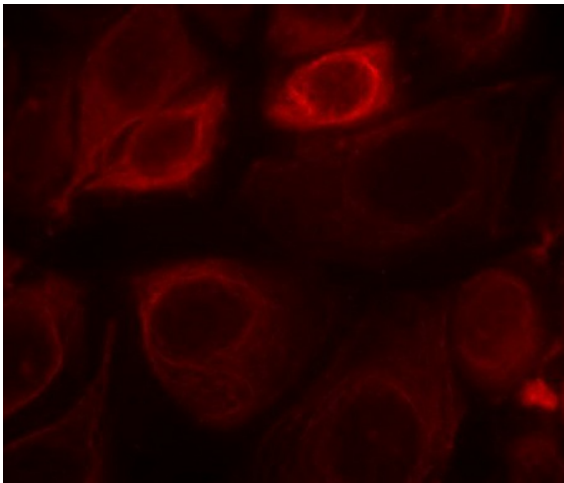
### Product images:



Predicted band size: 148 kDa. Positive control: A431 cells treated with EGF lysate. Recommended dilution: 1/ 500-1000. (Gel: 8%SDS-PAGE Lane 1: A431 cells untreated with EGF lysate Lane 2: A431 cells treated with EGF lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)



Predicted cell location: Cell membrane; Secreted.  
Positive control: Human breast carcinoma tissue.  
Recommended dilution: 1/ 50-100 The image on the left is immunohistochemistry of paraffin-embedded human breast carcinoma tissue using ERBB3 (phospho-Tyr1328) antibody at dilution 1/50, on the right is treated with the synthetic peptide. (Original magnification: x200)



Predicted cell location: Cell membrane; Secreted.  
Positive control: MCF7 cells. Recommended dilution: 1/ 100-200. The image is immunofluorescence of methanol-fixed MCF7 cells using ERBB3 (phospho-Tyr1328) antibody at dilution 1/100. (Original magnification: x200)