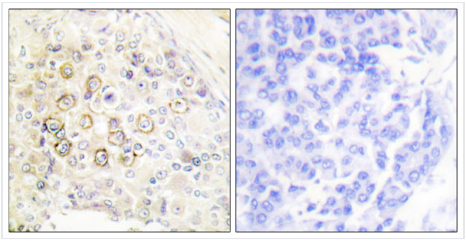
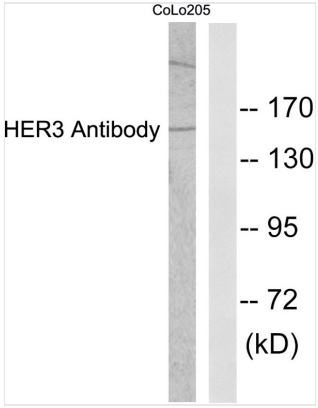
HER3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HER3, Polyclonal Antibody
Full Product Name	HER3 Antibody
Product Gene Name	anti-HER3 antibody
Product Synonym Gene Name	ERBB3
Product Synonym Names	c-erbB3; ERB3; ERBB3; HER3; kinase ErbB3; Receptor protein-tyrosine kinase erbB-3 precursor; Tyrosine kinase-type cell surface receptor HER3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	HER3 Antibody detects endogenous levels of total HER3 protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	148 kDa
OMIM	M29366 mRNA
3D Structure	ModBase 3D Structure for P21860
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human HER3.
Immunogen Range	Jan-50
Applications Tested/Suitable for anti-HER3 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-HER3 antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:5000
Related Product Information for anti-HER3 antibody	MBS9504554 is an antibody targeting HER3. Also known as HER3 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-HER3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-HER3 antibody
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using HER3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot (WB) of anti-HER3 antibody
Western blot analysis of lysates from COLO205 cells, using HER3 Antibody. The lane on the right is blocked with the synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HER3. It may not necessarily be applicable to this product.

NCBI GI #	54792102
NCBI GeneID	2065
NCBI Accession #	NP_001005915.1
UniProt Primary Accession #	P21860
UniProt Secondary Accession #	Q9BUD7; A8K6L6; B4DIK7; B4DV32; E9PDT8
UniProt Related Accession #	P21860
GenBank Nucleotide #	NM_001005915.1
NCBI Official Full Name	receptor tyrosine-protein kinase erbB-3 isoform s
NCBI Official Synonym Full Names	erb-b2 receptor tyrosine kinase 3
NCBI Official Symbol	ERBB3
NCBI Official Synonym Symbols	HER3; LCCS2; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1; c-erbB-3; p180-ErbB3; p45-sErbB3; p85-sErbB3
UniProt Protein Name	Receptor tyrosine-protein kinase erbB-3
UniProt Synonym Protein Names	Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3
UniProt Gene Name	ERBB3
UniProt Synonym Gene Names	HER3
NCBI Protein Information	receptor tyrosine-protein kinase erbB-3
NCBI Summary for HER3	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. [provided by RefSeq, Jul 2008]

UniProt Comments for HER3	Tyrosine-protein kinase that plays an essential role as cell surface receptor for neuregulins. Binds to neuregulin-1 (NRG1) and is activated by it; ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase (PubMed:20682778). May also be activated by CSPG5 (PubMed:15358134).
Research Articles on HER3	**1.** The A/A genotype of the ERBB3 rs2292239 SNP is associated with risk for T1DM in a white Brazilian population.
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