

## ARG55546 anti-ERBB3 / HER3 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes ERBB3 / HER3
Tested Reactivity	Hu, Ms
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ERBB3 / HER3
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 24-55 (N-terminus) of Human ERBB3.
Conjugation	Un-conjugated
Alternate Names	MDA-BF-1; LCCS2; p180-ErbB3; Proto-oncogene-like protein c-ErbB-3; c-erbB3; p85-sErbB3; Tyrosine kinase-type cell surface receptor HER3; p45-sErbB3; erbB3-S; HER3; c-erbB-3; ErbB-3; EC 2.7.10.1; Receptor tyrosine-protein kinase erbB-3

### Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	IHC-P	1:50 - 1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse brain	

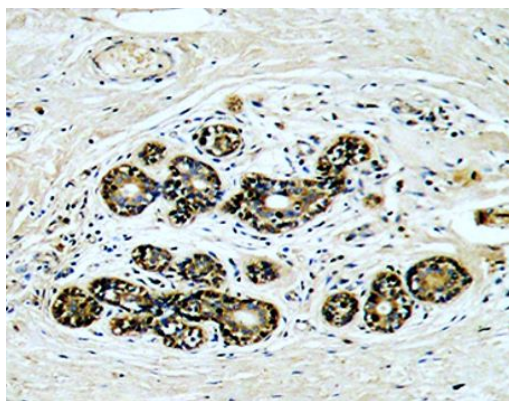
### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

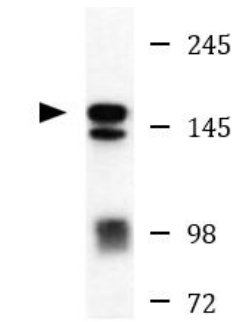
Database links	<a href="#">GeneID: 13867 Mouse</a> <a href="#">GeneID: 2065 Human</a> <a href="#">Swiss-port # P21860 Human</a> <a href="#">Swiss-port # Q61526 Mouse</a>
Gene Symbol	ERBB3
Gene Full Name	erb-b2 receptor tyrosine kinase 3
Background	<p>This gene encodes a member of the epidermal growth 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]</p>
Function	Binds and is activated by neuregulins and NTAK. May also be activated by CSPG5. [UniProt]
Research Area	Cancer antibody; Controls and Markers antibody; Signaling Transduction antibody
Calculated Mw	148 kDa
PTM	Autophosphorylated (PubMed:20351256). Ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase (PubMed:20682778).
Cellular Localization	Isoform 1: Cell membrane; Single-pass type I membrane protein

## Images



ARG55546 anti-ERBB3 / HER3 antibody IHC-P image

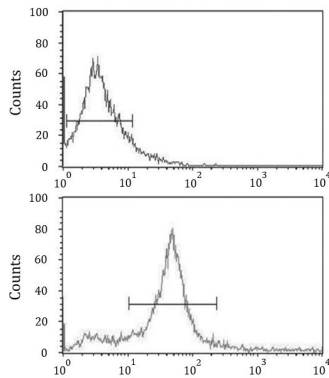
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast carcinoma stained with ARG55546 anti-ERBB3 / HER3 antibody.



Mouse brain

#### ARG55546 anti-ERBB3 / HER3 antibody WB image

Western blot: Mouse brain lysate stained with ARG55546 anti-ERBB3 / HER3 antibody.



#### ARG55546 anti-ERBB3 / HER3 antibody FACS image

Flow Cytometry: 293 cells stained with ARG55546 anti-ERBB3 / HER3 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.