



Human Anti-Human HER2 (Trastuzumab) Monoclonal Antibody, clone 4D5-8 [Biosimilar] (CABT-Z628H)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Biosimilar Recombinant Human Monoclonal Antibody
Specificity	This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Trastuzumab.
Immunogen	Human epidermoid carcinoma cells (A431) over-expressing EGFR.
Isotype	IgG1, κ
Source/Host	Human
Species Reactivity	Human
Clone	4D5-8
Purification	Protein A or G purified
Conjugate	Functional Grade
Applications	FA
Format	Liquid
Concentration	Lot specific
Size	5 mg
Buffer	0.01 M phosphate buffered saline (PBS) pH 7.2, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and Azide free. Endotoxin Level \leq 0.75 EU/mg as

determined by the LAL method

Preservative	None
Storage	Store at 2-8°C for short term; -80°C for long term. Avoid freeze / thaw cycle.
Ship	Wet ice

BACKGROUND

Introduction	Trastuzumab is a monoclonal antibody targeting HER2, a 185 kDa transmembrane glycoprotein that contains an extracellular domain and intracellular tyrosine kinase activity. When it is functioning normally, the HER2 pathway supports cell growth and division. On the other hand, the over expression of HER2 propels cell growth beyond its typical range. This overexpression is associated with some cancers, namely breast and stomach, in which the HER2 protein can be expressed up to 100 times more than in typical cells. Trastuzumab induces an immune-mediated response that triggers the internalization and downregulation of HER2 making it an excellent target for immunotherapy. Several clinical studies are under way which show that anti-HER-2/neu antibodies inhibit the growth and proliferation of these tumor cells In vitro as well as In vivo.
Keywords	ERBB2;v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian);NGL, v erb b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog);receptor tyrosine-protein kinase erbB-2;CD340;HER 2;Trastuzumab

GENE INFORMATION

Gene Name	ERBB2
Entrez Gene ID	2064
UniProt ID	P04626