Data Sheet (Cat.No.TMAY-01654)

TargetMol

Anti-Phospho-HER3/ErbB3 (Tyr1289) Antibody (5D565)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human; Species predicted to react based on 100% sequence homology: cynomolgus
Conjugation:	Unconjugated
Clone:	5D565
Purification:	Protein A

Applications

Verified Activity:	1. Western blot analysis of extracts from serum-starved MCF-7, untreated (-) or treated with neuregulin-1 (100 ng/mL, 5 min) using Phospho-HER3/ErbB3 (Tyr1289) rabbit monoclonal Antibody at 1:2000 dilution (upper), or Anti-HER3/ERBB3 Antibody, Rabbit Polyclonal at 1:2000 dilution (middle), or Beta-Tubulin Loading Control Antibody, Mouse MAb at 1:2000 dilution (lower) 2. Western blot analysis of extracts from serum-starved MCF-7, untreated (line A); treated with neuregulin-1(100ng/ml, 5min; +) (line B); treated with neuregulin-1 and λ-phosphatase (line C) using Phospho-HER3/ErbB3 (Tyr1289) rabbit monoclonal Antibody at 1:100000 dilution. (Validation Experiment)
Application:	WB
Recommended	WB: 1:2000-1:20000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: residues around Tyr1289 of the Human Phospho-HER3/ErbB3
Antigen Species:	Human
Synonyms:	FERLK;p180-ErbB3;ErbB3;Phospho-HER3/ErbB3 (Y1289);p85-sErbB3;Erb-B3;erbB3-S; HER3/ErbB3 (p-Y1289);MDA-BF-1;LCCS2;HER3/ErbB3 (p-Tyr1289);p-HER3/ErbB3 (Tyr1289); VSCN1;c-erbB3;p45-sErbB3;HER3;c-erbB-3;p-HER3/ErbB3 (Y1289);ErbB-3
Biology Area:	Cancer Drug Targets, Receptor Tyrosine Kinases (RTKs)

Research Background

ErbB3, also known as Her3(human epidermal growth factor receptor3), is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound glycoprotein has a neuregulin binding domain but has not an active kinase domain., and therefore can not mediate the intracellular signal transduction through protein phosphorylation. However, its heterodimer with ErbB2 or other EGFR members responsible for tyrosine phosphorylation forms a receptor complex with high affinity, and initiates the related pathway which lead to cell proliferation or differentiation. ErbB3 has been shown to implicated in numerous cancers, including prostate, bladder, and breast tumors. This protein has different isoforms derived from alternative splicing variants, and

among which, the secreted isoform lacking the intermembrane region modulates the activity of membrane-bound form.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

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