

Rabbit Anti-Phospho-HER3 (Tyr1289) [MD39R]: RM0342

Intended Use: For Research Use Only

Description: HER3/ErbB3 is a member of the ErbB receptor protein tyrosine kinase family, but lacks tyrosine kinase activity. Tyrosine phosphorylation of ErbB3 depends on its association with other ErbB tyrosine kinases. Upon ligand binding, heterodimers form between ErbB3 and other ErbB proteins and ErbB3 is phosphorylated on tyrosine residues by the activated ErbB kinase. There are at least 9 potential tyrosine phosphorylation sites in the carboxy terminal tail of ErbB3. These sites serve as consensus binding sites for signal transducing proteins, including Src family members, Grb2 and the p85 subunit of PI3 kinase, which mediate ErbB-downstream signaling. Both Tyr1222 and Tyr1289 of ErbB3 reside within a YXXM motif and participate in signaling to PI3 kinase. ErbB3 is highly expressed in many cancer cells and activation of ErbB3-PI3 kinase pathway is correlated with malignant phenotypes of adenocarcinomas (6). In tumor development, ErbB3 may function as an oncogenic unit together with other ErbB members, e.g. ErbB2 requires ErbB3 to drive breast tumor cell proliferation. Thus, prevention of the interaction of ErbB3 with other ErbB tyrosine kinases has become a novel anti-tumor strategy.

Specifications:

Clone: MD39R
Source: Rabbit
Isotype: IgG
Reactivity: Human
Localization: Membrane
Formulation: Purified antibody with 0.2% BSA and 15mM sodium azide (NaN₃).
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications: IHC, IP, WB
Package:

Description	Catalog No.	Size
Phospho-HER3 (Tyr1289) Concentrated	RM0342	1 ml

IHC Procedure*:

Positive Control Tissue: Breast, lung, prostate cancer
Concentrated Dilution: 50-100
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.