

**bs-3491R****[ Primary Antibody ]****phospho-ERBB3 (Tyr1289) Rabbit pAb****BioSS**  
**ANTIBODIES**

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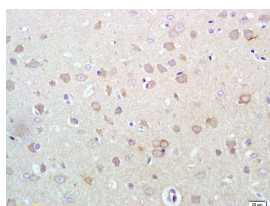
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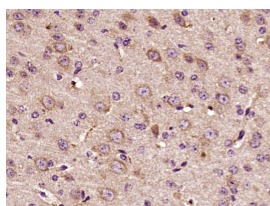
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**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 2065 <b>Target:</b> ERBB3 (Tyr1289) <b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human HER3 around the phosphorylation site of Tyr1289: QG(p-Y)EE. < Cytoplasmic > <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> The ErbB3 gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. ErbB3 is a membrane-bound protein which has a neuregulin binding domain but not an active kinase domain. It can therefore bind this ligand but cannot convey a signal into the cell via 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.	<b>Isotype:</b> IgG <b>SWISS:</b> P21860 <b>Applications:</b> IHC-P (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Cow, Dog, Horse) <b>Predicted MW.:</b> 148 kDa <b>Subcellular Location:</b> Secreted ,Cell membrane
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**— VALIDATION IMAGES —**

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-Phospho-HER3(Tyr1289) Polyclonal Antibody, Unconjugated(bs-3491R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-HER3 (Tyr1289)) Polyclonal Antibody, Unconjugated (bs-3491R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=8.2]** Yang Yi-Chieh. et al. ESM1 facilitates the EGFR/HER3-triggered epithelial-to-mesenchymal transition and

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progression of gastric cancer via modulating interplay between Akt and angiopoietin-2 signaling. INT J BIOL SCI. 2024 Sep;20(12):4819-4837 WB ;Human. 39309430