



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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### Zuschläge

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- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## ERBB2(phospho Y1221/Y1222) & ERBB2 Protein Phosphorylation Antibody Pair

Catalog # : DP0044

規格 : [ 1 Set ]

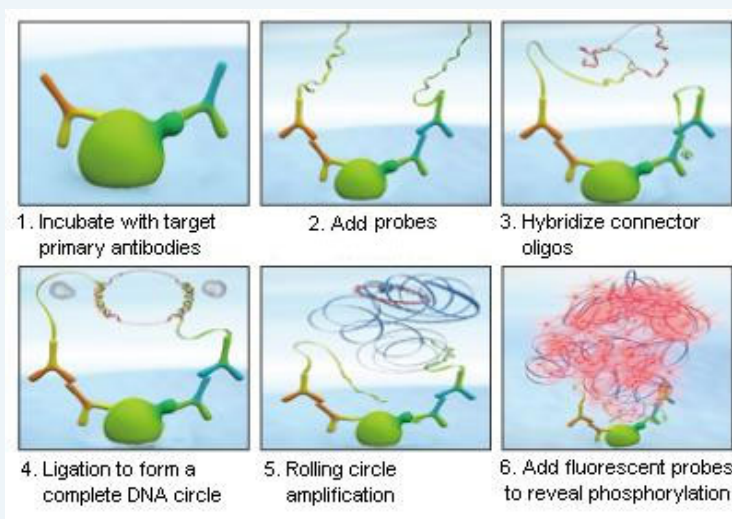
List All

### Specification

**Product Description:** This protein phosphorylation antibody pair set comes with two antibodies, one against the ERBB2 protein, and the other against the specific Y1221/Y1222 phosphorylated site of ERBB2 for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

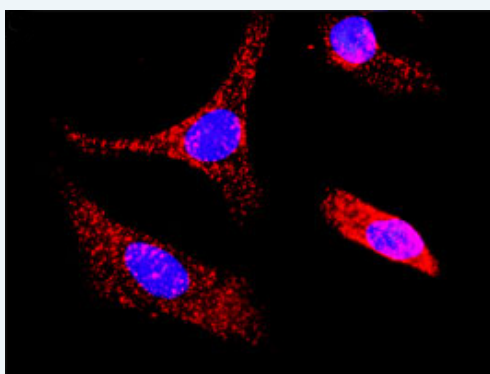
### Application Image

*In situ* Proximity Ligation Assay (Cell)



**Reactivity:** Human

**Quality Control Testing:** Dual recognition immunofluorescence result.



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware ([BlobFinder](#)) download from The Centre for Image Analysis at Uppsala University.

**Supplied Product:** Antibody pair set content:  
 1. Phospho-ERBB2 Y1221/Y1222 rabbit polyclonal antibody (20 ul)  
 In PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), 150 mM NaCl, pH 7.4 (0.02% sodium azide, 50% glycerol)  
 2. ERBB2 mouse monoclonal antibody (40 ug)  
 In 1x PBS, pH 7.2  
 \*Reagents are sufficient for at least 30-50 assays using recommended protocols.

**Storage** Store reagents of the antibody pair set at -20°C or lower. Please aliquot  
**Instruction:** to avoid repeated freeze thaw cycle. Reagents should be returned to -  
20°C storage immediately after use.

## Publication Reference

1. In situ detection of phosphorylated platelet-derived growth factor receptor beta using a generalized proximity ligation method.  
Jarvius M, Paulsson J, Weibrecht I, Leuchowius KJ, Andersson AC, Wahlby C, Gullberg M, Botling J, Sjoblom T, Markova B, Ostman A, Landegren U, Soderberg O.  
Mol Cell Proteomics. 2007 Sep;6(9):1500-9. Epub 2007 Jun 12.
2. Direct observation of individual endogenous protein complexes in situ by proximity ligation.  
Soderberg O, Gullberg M, Jarvius M, Ridderstrale K, Leuchowius KJ, Jarvius J, Wester K, Hydbring P, Bahram F, Larsson LG, and Landegren U.  
Nat Methods. 2006 Dec;3(12):995-1000. Epub 2006 Oct 29.
3. Cytokine detection by antibody-based proximity ligation.  
Gullberg M, Gustafsdottir SM, Schallmeiner E, Jarvius J, Bjarnegard M, Betsholtz C, Landegren U, and Fredriksson S.  
Proc Natl Acad Sci U S A. 2004 Jun 1;101(22):8420-4. Epub 2004 May 21.
4. Protein detection using proximity-dependent DNA ligation assays.  
Fredriksson S, Gullberg M, Jarvius J, Olsson C, Pietras K, Gustafsdottir SM, Ostman A, and Landegren U.  
Nat Biotechnol. 2002 May;20(5):473-7.
5. Highly specific detection of phosphorylated proteins by Duolink  
Mats Gullberg and Ann-Catrin Andersson  
Nature Methods 6. 2009

## Applications

### *In situ* Proximity Ligation Assay (Cell)

## Gene Information

**Entrez GeneID:** [2064](#)

**Gene Name:** ERBB2

**Gene Alias:** CD340,HER-2,HER-2/neu,HER2,NEU,NGL,TKR1

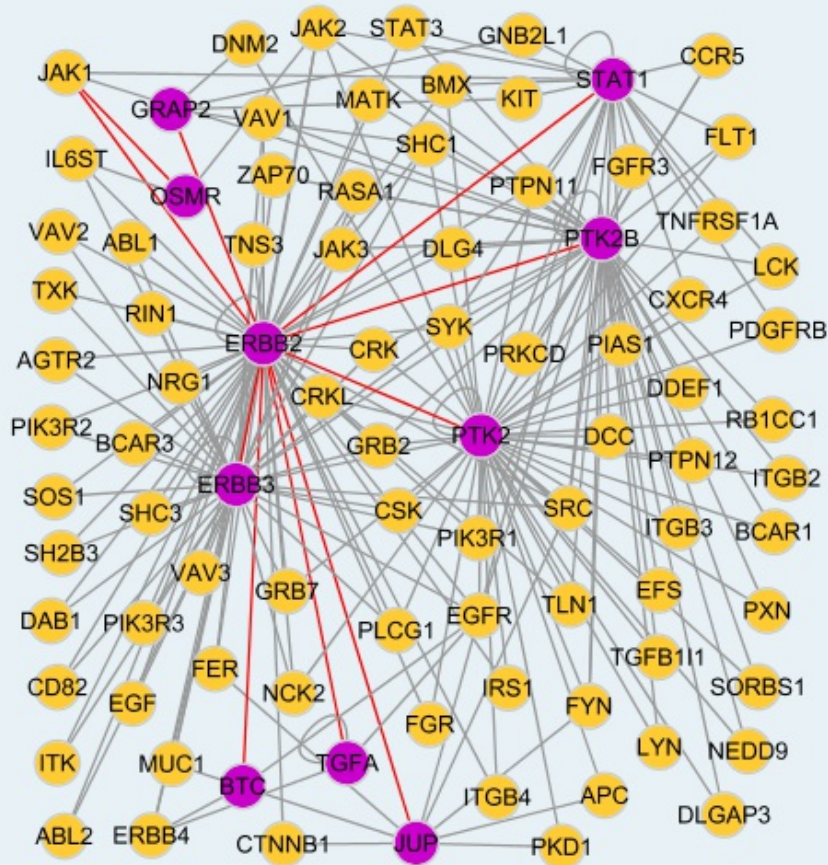
**Gene Description:** v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)

**Omim ID:** [137215](#), [137800](#), [164870](#), [211980](#)

**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized.  
[provided by RefSeq]

**Other Designations:** c-erb B2/neu protein,erbB-2,herstatin,neuroblastoma/glioblastoma derived oncogene homolog,v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog)



**Gene Pathway**

[Adherens junction](#) [Bladder cancer](#) [Calcium signaling pathway](#) [Endometrial cancer](#)  
[ErbB signaling pathway](#) [Focal adhesion](#) [Non-small cell lung cancer](#) [Pancreatic cancer](#)  
[Pathways in cancer](#) [Prostate cancer](#)

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[Carcinoma, Intraductal, Noninfiltrating](#) [Carcinoma, Large Cell](#) [Carcinoma, Lobular](#)  
[Carcinoma, Non-Small-Cell Lung](#) [Carcinoma, Squamous Cell](#)  
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