

Recombinant Rat ErbB2 / HER2 protein ab191967

1 References

製品の詳細

製品名	Recombinant Rat ErbB2 / HER2 protein
精製度	> 95 % SDS-PAGE. Purity greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
エンドキシン・レベル	< 1.000 Eu/ μ g
発現系	Escherichia coli
アクセッション番号	P06494
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Rat
配列	MANASLSFLQDIQEVQGYMLIAHNQVKRVPLQRLRIVRGTQL FEDKYALA VLDNRDPQDNVAASTPGRTPEGLRELQRLSLTEILKGGVLIR GNPQLCYQ DMVLWKDVFRKNNQLAPVDIDTNRSRACPPCAPACKDNHCWG ESPEDCQI LTGTICTSGCARCKGRLPTDCCHEQCAAGCTGPKHSDCLACL HFNHSGIC ELHCPALVTYNTDTFESMHNPEGRYTFGASCVTTCPYNLST EVGSCTLV CPPNNQEVHHHHHH
予測される分子量	29 kDa including tags
領域	67 to 323
タグ	His tag C-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab191967** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE HPLC
製品の状態	Lyophilized

前処理および保存

保存方法および安定性

Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.4

Constituents: 0.87% Sodium chloride, 24% Urea, 0.24% Tris

Lyophilized from a 0.2 μM filtered solution.

関連情報

機能

Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization. In the nucleus is involved in transcriptional regulation. Associates with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter and activates its transcription. Implicated in transcriptional activation of CDKN1A; the function involves STAT3 and SRC. Involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth.

組織特異性

Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.

関連疾患

Hereditary diffuse gastric cancer

Glioma

Ovarian cancer

Lung cancer

Gastric cancer

Chromosomal aberrations involving ERBB2 may be a cause gastric cancer. Deletions within 17q12 region producing fusion transcripts with CDK12, leading to CDK12-ERBB2 fusion leading to truncated CDK12 protein not in-frame with ERBB2.

配列類似性

Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. Contains 1 protein kinase domain.

翻訳後修飾

Autophosphorylated. Autophosphorylation occurs in trans, i.e. one subunit of the dimeric receptor phosphorylates tyrosine residues on the other subunit (Probable). Ligand-binding increases phosphorylation on tyrosine residues (PubMed:27134172). Signaling via SEMA4C promotes phosphorylation at Tyr-1248 (PubMed:17554007). Dephosphorylated by PTPN12 (PubMed:27134172).

細胞内局在

Cytoplasm. Nucleus and Cell membrane. Cytoplasm, perinuclear region. Nucleus. Translocation to the nucleus requires endocytosis, probably endosomal sorting and is mediated by importin beta-1/KPNB1.

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